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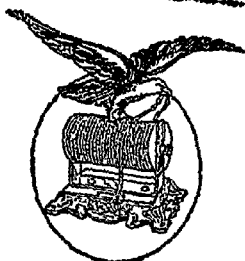
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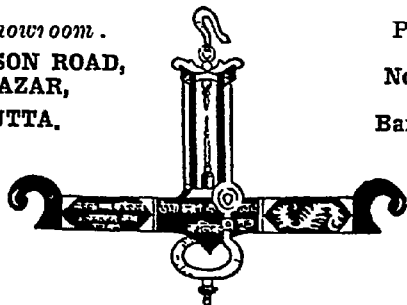
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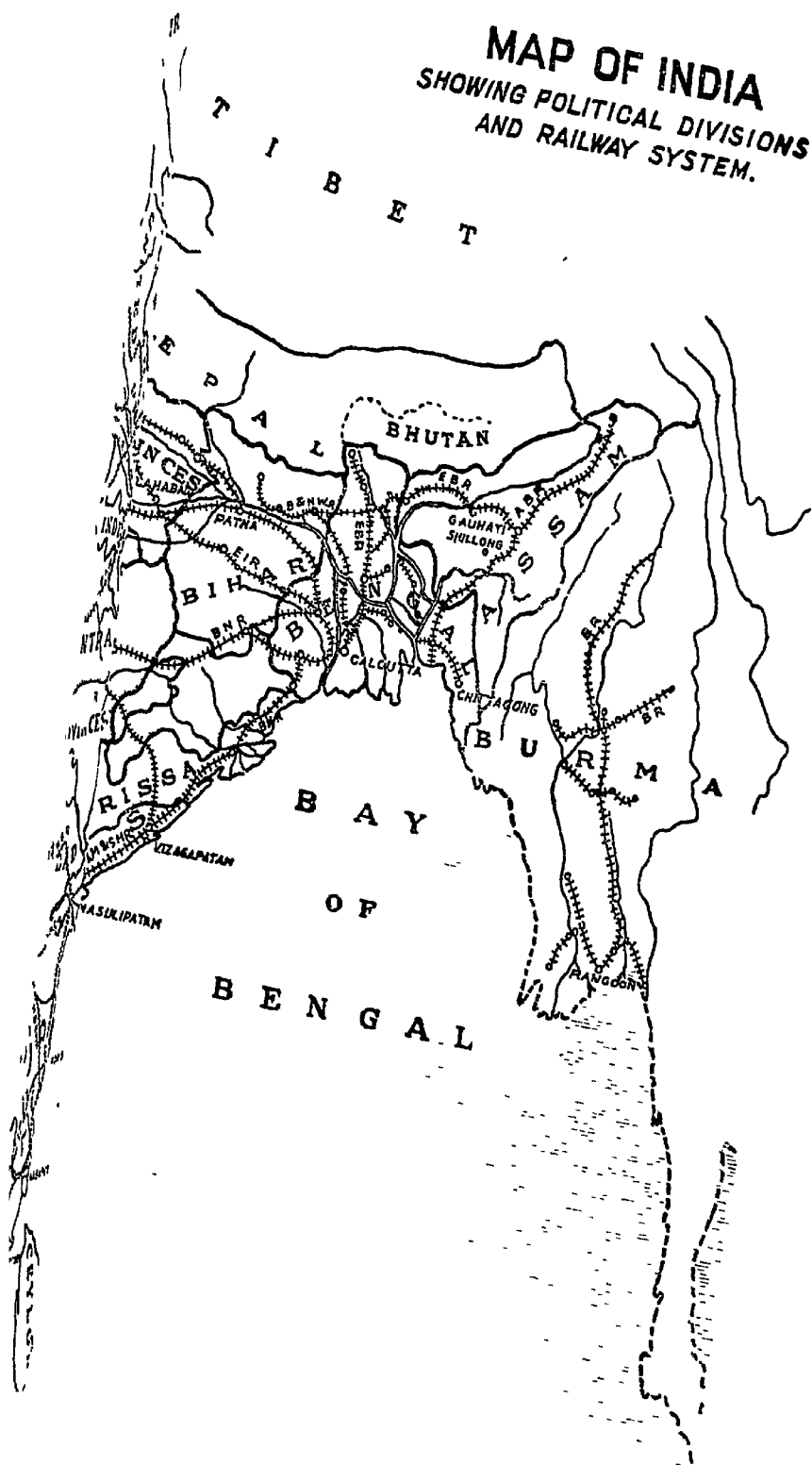
**S. K. BANERJEE, M A , B COM.**





# MAP OF INDIA

SHOWING POLITICAL DIVISIONS  
AND RAILWAY SYSTEM.



# ALMANAC FOR 1943

	JANUARY	FEBRUARY	MARCH
SUN.	31 3 10 17 24	* 7 14 21 28	* 7 14 21 28
MON.	* 4 11 18 25	1 8 15 22 *	1 8 15 22 29
TUES.	* 5 12 19 26	2 9 16 23 *	2 9 16 23 30
WED.	* 6 13 20 27	3 10 17 24 *	3 10 17 24 31
THUR.	* 7 14 21 28	4 11 18 25 *	4 11 18 25 *
FRI.	1 8 15 22 29	5 12 19 26 *	5 12 19 26 *
SAT.	2 9 16 23 30	6 13 20 27 *	6 13 20 27 *
	APRIL	MAY	JUNE
SUN.	* 4 11 18 25	30 2 9 16 23	* 6 13 20 27
MON.	* 5 12 19 26	31 3 10 17 24	* 7 14 21 28
TUES.	* 6 13 20 27	* 4 11 18 25	1 8 15 22 29
WED.	* 7 14 21 28	* 5 12 19 26	2 9 16 23 30
THUR.	1 8 15 22 29	* 6 13 20 27	3 10 17 24 *
FRI.	2 9 16 23 30	* 7 14 21 28	4 11 18 25 *
SAT.	3 10 17 24 *	1 8 15 22 29	5 12 19 26 *
	JULY	AUGUST	SEPTEMBER
SUN.	* 4 11 18 25	1 8 15 22 29	* 5 12 19 26
MON.	* 5 12 19 26	2 9 16 23 30	* 6 13 20 27
TUES.	* 6 13 20 27	3 10 17 24 31	* 7 14 21 28
WED.	* 7 14 21 28	4 11 18 25 *	1 8 15 22 29
THUR.	1 8 15 22 29	5 12 19 26 *	2 9 16 23 30
FRI.	2 9 16 23 30	6 13 20 27 *	3 10 17 24 *
SAT.	3 10 17 24 31	7 14 21 28 *	4 11 18 25 *
	OCTOBER	NOVEMBER	DECEMBER
SUN.	31 3 10 17 24	* 7 14 21 28	* 5 12 19 26
MON.	* 4 11 18 25	1 8 15 22 29	* 6 13 20 27
TUES.	* 5 12 19 26	2 9 16 23 30	* 7 14 21 28
WED.	* 6 13 20 27	3 10 17 24 *	1 8 15 22 29
THUR.	* 7 14 21 28	4 11 18 25 *	2 9 16 23 30
FRI.	1 8 15 22 29	5 12 19 26 *	3 10 17 24 31
SAT.	2 9 16 23 30	6 13 20 27 *	4 11 18 25 *

# Your Attention Please!

In presenting the fifteenth (1943) issue of the **INDUSTRY YEAR BOOK & DIRECTORY**, the publishers have the highest pleasure to announce that additions and revisions have been effected in this edition on a wide scale to render the volume quite comprehensive and of practical usefulness, in spite of numerous handicaps arising out of war conditions.

The latest statistical figures regarding banking, insurance, agricultural crops, trades and industries, foreign trade, etc. have been included to render the volume a serviceable book of reference to businessmen, journalists, statesmen and students of economics alike.

The Market Places of India Section has been thoroughly revised and rewritten. Our best thanks are due to the various Departments of the Provincial Governments and of the Indian States which have helped us with important facts and figures relating to trade, industries and agricultural and cattle fairs.

The Directory Section has also been thoroughly revised and enlarged. The number of sections have been considerably increased for the sake of easy reference. The list of agents and distributors of foreign goods in India has also been revised and extended.

Among the outstanding features introduced in the present volume mention may be made of the inclusion of quotations of stocks, shares and important commodities month by month along with index numbers of commodity prices and cost of living. Position of some of the important companies has also been shown.

Other additions to the volume are . A summary of the provisions and notifications made by the Government of India as are likely to affect the business community; a broad survey of the financial, economic and industrial situation in India during 1942-43; a digest of the Central and Railway Budgets; Foreign Trade of India during 1942; a brief account of the Industrial Expansion during 1942-43; income tax rates, tariff schedules, stamp duties, etc., etc.

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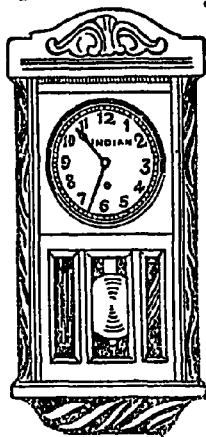
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- " Santilal K Bhora, Rajkot
- " General Elect & Radio Stores, Raipur
- " Indian Gramophone House, Chandni Chowk, Delhi
- " Globe Radio & Sound Corporation, Bombay

## CONTENTS

Classified Trades & Industries - - - - -	31
Technical Institutions - - - - -	57
Index to Advertisers - - - - -	59
Gazetteer of Market Places of India - - - - -	65
Postal Information - - - - -	71
General p 71—Inland Postal Rates p 73—Foreign Postal Rates p. 75—Telegraphic Information p 77— Telephone Section p 79—Air Mail Services p 80	
Railway Information - - - - -	83
Railway Finance p 83—State Railway Earnings p 85— State Railway Expenses p 86—Railway System in India p 87—Minor Railways p 93—General Rules on Indian Railway p 93—Goods Tariff p. 94—Payment of Railway Annuities p 95—Payment of Sterling Liabili- ties p 96—India's Railways Transport Difficulties p 96	
Shipping Information - - - - -	97
Coastal & Inland Shipping p 98—Overseas Shipping p 99—Tonnage Schedule p 101—Port Charges p 104— Season of Shipment p 111—Seasons Relating to Weather p. 112	
The Money Market - - - - -	113
Indian Monetary System - - - - -	113
Weights and Measures - - - - -	118
Units of Sale of Commodities - - - - -	123

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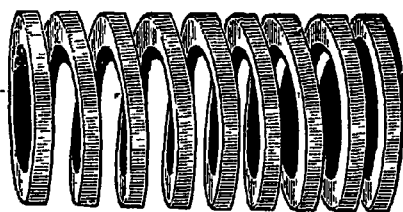
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Relative Time	125
Labour and Commercial Laws	126
Commercial Associations	155
Chambers of Commerce p 155—Trade Associations	
p 165—Planters' Associations p 187	
Government Offices	190
Business Abbreviations	197
Indian Income-Tax Rate	201
Indian Stamp Duties	204
Indian Customs Tariff	208
Agricultural Produce Cess Act, 1940	220
Indian Customs & Central Excise Revenue	221
Import & Exports during 1941-42	222
Review of Trade & Industries During 1942-43	225
Banking Development in India	241
Classification of Banks p 241—Reserve Bank of India	
p 241—Imperial Bank of India p 243—Bank Rate	
p 245—Exchange Banks p 245—Joint Stock Banks	
p 246—Total Private Deposits p 248—Scheduled Banks	
p 249—Non-scheduled Banks p 250—Co operative	
Banks p 252—Land Mortgage Banks p 253—Loan	
Offices p 253—Recent Business Figures p 254	
Insurance in India	255
History of Life Insurance p 255—Insurance Business	
in India p 256—Life Assurance Business p 257—New	
Business p 258—Total Business in Force p 258—	
Annuity Business p 259—Life Business Outside India	
by Indian Companies p 259—Fire, Marine & Miscellaneous	
Insurance Business p 259—Life Assurance Fund	

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p 260—Insurance Companies Assets p. 261—Insurance Business on Dividing Plan p. 261—Provident Insurance Societies p 261—Provident Societies p 262—Recent Business Figures p 262	
Cotton Mill Industry - - - - -	268
Jute Mill Industry - - - - -	279
Agricultural Resources in India - - - - -	283
Jute p 283—Cotton p. 283—Rice p 286—Wheat p 287—Oil seeds p 288—Castor seed p 289—Groundnut p 290—Linseed p 290—Rape seed and Mustard seed p 291—Sesamum p 292—Tobacco p 293—Tea p 293—Coffee p 294—Rubber p 295—Coconut p 295	
Indian Sugar Industry - - - - -	297
Mineral Resources of India - - - - -	306
Coal p 306—Gypsum p 306—Ilmenite, Monazite and Zircon p 307—Kyanite and Sillimanite p 307—Magnesite p 307—Manganese Ore p 307—Steatite p. 308—Mica p 308—Sulphur p 309	
Iron & Steel Industry - - - - -	310
Company Position - - - - -	312
Indian Stock Exchanges in 1942 - - - - -	319
Stock Quotation for 1942 p 320—Highest Quotations of Shares for the last week of every month 1942 p 321—	
Price Movements of Commodities - - - - -	330
Prices of Principal Commodities in India in 1942 p 331—Index Number of Commodities Prices, Calcutta p 335—Cost of Living Index Numbers p 336	
Civil Divisions of India - - - - -	337
Population of India - - - - -	348
Market Places of Bengal - - - - -	349

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Market Places of the Bombay Presidency	- - - -	381
"    "    the Madras Presidency	- - - -	401
"    "    Bihar	- - - -	428
"    "    United Provinces	- - - -	448
"    "    the Punjab	- - - -	481
"    "    Delhi	- - - -	501
"    "    the Central Provinces	- - - -	503
"    "    Assam	- - - -	519
"    "    North West Frontier Province	- - - -	527
"    "    Sind	- - - -	531
"    "    Orissa	- - - -	543
"    "    Indian States	- - - -	550
"    "    of Nepal	- - - -	595
Technical Institutions with Prospectus	- - - -	599
Agricultural and Sericultural Institutions	p 599—	
Schools of Art and Crafts	p 604—	
Commercial Institutions	p 608—	
Engineering Schools and Colleges	p 615—	
Forest Colleges	p 630—	
Industrial and Technical Institutions	p 632—	
Mercantile Marine	p 648—	
Miscellaneous Institutions	p 649—	
Ordnance Factories	p 654—	
Radio Training Institutes	p 654—	
Tanning Institutions	p 656—	
Veterinary and Poultry Institutions	p 658—	
Weaving and Dyeing Institutions	p 661	
	[Detailed contents on page 57]	
Classified Trades & Industries	- - - -	667
	[Detailed contents on page 31]	
Trade Directory of Nepal	- - - -	1220
List of Agents & Distributors of Foreign Goods in India	- - - -	1234
Newspapers and Periodicals of India	- - - -	1242
General Index	- - - -	1284

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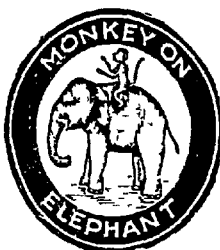
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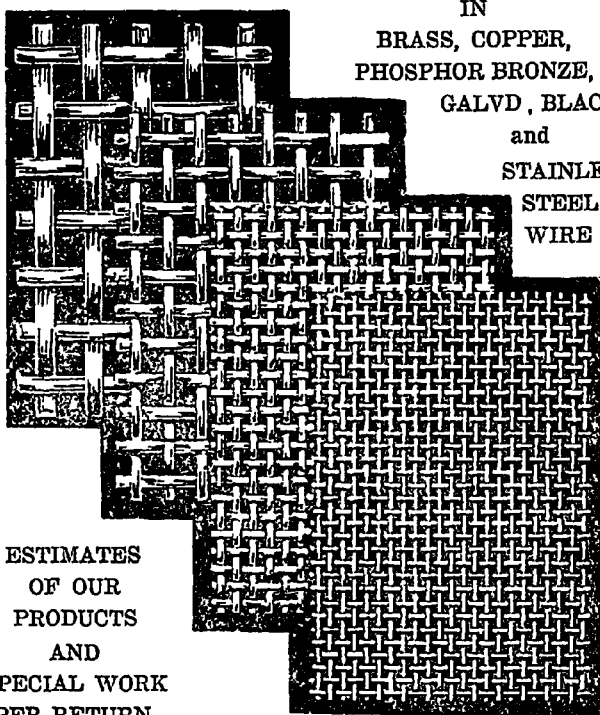
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## CLASSIFIED TRADES & INDUSTRIES

Abrasive Dealers	- - - - -	667
✓ Absorbent Cotton Dealers	- - - - -	667
Accountants & Auditors	- - - - -	667
Acid Manufacturers	- - - - -	669
Adding and Calculating Machine Dealers	- - - - -	670
Addressing Machine Dealers	- - - - -	670
Adhesive Manufacturers	- - - - -	670
Advertisement Sign Board Makers	- - - - -	670
Advertising Tape Manufacturers	- - - - -	670
Aerated Water Manufacturers	- - - - -	671
Aerated Water Requisites Dealers	- - - - -	673
Aerial Transport Companies	- - - - -	673
Agarbati Manufacturers	- - - - -	673
Agents, Advertising	- - - - -	674
" Forwarding, Shipping & Clearing	- - - - -	676
" General	- - - - -	678
" Insurance	- - - - -	679
" Land, Estate & Finance	- - - - -	680
" Manufacturers	- - - - -	682
" Passenger	- - - - -	685
Agricultural Implements Dealers	- - - - -	685
Agricultural Machinery Manufacturers	- - - - -	686
Air Conditioning Equipment Dealers	- - - - -	686
Air Craft Manufacturers & Importers	- - - - -	686
All Raid Precaution Equipment Dealers	- - - - -	687
Alcohol Dealers	- - - - -	687
Aluminium Sheets Manufacturers	- - - - -	687
Aluminium Ware Dealers	- - - - -	687
Aluminium Ware Manufacturers	- - - - -	687
Analytical Chemists	- - - - -	688
Antifriction White Metal Manufacturers	- - - - -	689
Arc Lamp & Accessories Dealers	- - - - -	689
Architects & Building Contractors	- - - - -	689
Arms & Ammunition Dealers	- - - - -	690
Army Contractors	- - - - -	691
Artificial Silk Mills	- - - - -	691
Artificial Silk Yarn Dealers	- - - - -	692



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Artists	- - - - -	692
Artists' Material Dealers	- - - - -	692
Artware Manufacturers	- - - - -	692
Asafoetida Merchants	- - - - -	693
Asbestos and Asbestos Goods Dealers	- - - - -	694
Asphalt, Pitch, Tar etc. Dealers	- - - - -	694
Astrological & Allied Bureaus	- - - - -	695
Attar Manufacturers	- - - - -	695
Auctioneers	- - - - -	695
Ayurvedic and Hakimi Medicine Dealers	- - - - -	696
Bakelite Goods Manufacturers	- - - - -	699
Bakers	- - - - -	700
Balance and Scale Manufacturers & Dealers	- - - - -	701
Baloon Manufacturers	- - - - -	701
Bamboo Mats & Bamboo Merchants	- - - - -	702
Banks	- - - - -	702
Bankers and Loan Offices	- - - - -	711
Barley Manufacturers	- - - - -	714
Battery Dealers & Importers	- - - - -	714
Battery Manufacturers	- - - - -	715
Bedding Manufacturers	- - - - -	715
Beedi Manufacturers	- - - - -	716
Beedi Leaves Merchants	- - - - -	718
Beekeepers' Accessories Suppliers	- - - - -	718
Beeswax Dealers	- - - - -	718
Bellmetal Ware Manufacturers	- - - - -	718
Belting Dealers	- - - - -	719
Belting Manufacturers	- - - - -	719

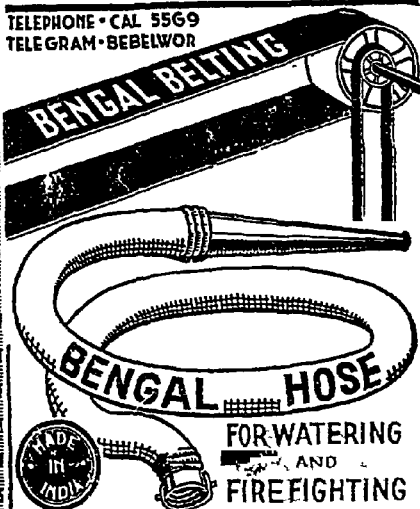
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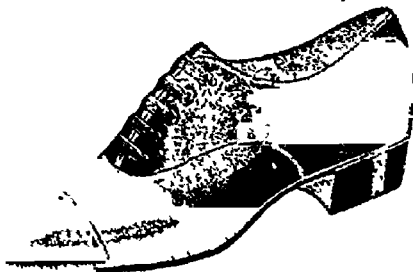
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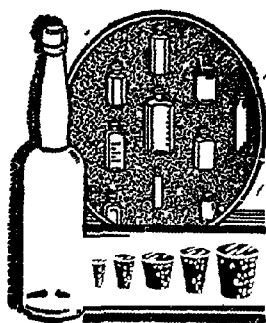


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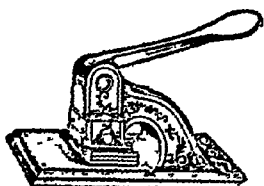
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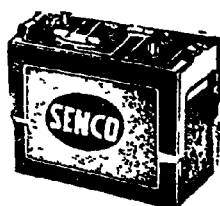
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Dairy Products Manufacturers & Dealers	- - - - -	840
Dal Mills	- - - - -	843
Decoratois	- - - - -	843
Dental Clinics	- - - - -	843
Dentists' Material Dealers	- - - - -	844
Diamonds & Precious Stones Merchants	- - - - -	844
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Drum & Barrel Dealers	- - - - -	847
Duplicatois Manufacturers	- - - - -	848
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Electric Bulb Manufacturers	- - - - -	851
Electric Cable Manufacturers	- - - - -	851
Electric Fan Manufacturers	- - - - -	851
Electric Goods & Accessories Dealers	- - - - -	852
Electric Goods Manufacturers	- - - - -	856
Electric Meter Dealers	- - - - -	857
Electric Power Supply Companies	- - - - -	857
Electric Welding Equipment Dealers	- - - - -	859
Electrical Engineering	- - - - -	859
Electro-platers & Gilders	- - - - -	860
Embroidery Dealers & Manufacturers	- - - - -	861
Emery Cloth Manufactures	- - - - -	861
Enamel Works	- - - - -	862
Enamelware Dealers	- - - - -	862
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Essential Oil Dealers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	871
Eucalyptus Oil Dealers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	872
Eucalyptus Oil Manufacturers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	872
Exchange Brokers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	873
Expanded Metal Merchants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	873
Fancy Goods Dealers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	873
Fertiliser Mnfis, Dealers & Exporters	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	874
Fibre Merchants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	874
Filter Dealers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	874
Filter Paper Manufacturers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	875
Fire Bricks Manufacturers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	875
Fire Extinguisher Dealers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	875
Fireworks Manufacturers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	875
Fish Merchants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	875
Fish Oil Manufacturers & Dealers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	876
Fishing Tackle Dealers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	877
Flask Dealers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	877
Flour Merchants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	877
Flour Mills	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	877
Flying Clubs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	879
Fodder Merchants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	880
Fountain Pen Dealers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	880
Fountain Pen Manufacturers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	880
Fruits Dealers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	881
Furniture Makers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	883
Galvanised Corrugated Sheets Dealers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	887
Galvanised Ware Manufacturers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	889
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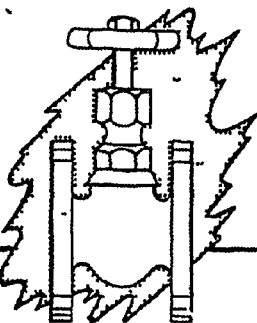
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Jute Machinery Dealers	-	-	-	-	-	-	-	-	-	970
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Jute Mills	-	-	-	-	-	-	-	-	-	971
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Lac Dealers	-	-	-	-	-	-	-	-	-	974
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Lampware & Accessories Dealers	-	-	-	-	-	-	-	-	-	975
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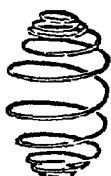
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Telephone Companies	- - - - -	1181
Tent Suppliers	- - - - -	1182
Textile Machinery Dealers	- - - - -	1182
Tile Manufacturers	- - - - -	1182
Timber Merchants	- - - - -	1184
Tin Box Manufacturers	- - - - -	1188
Tin Plate Dealers	- - - - -	1189
Tin Printers	- - - - -	1189
Tobacco Merchants	- - - - -	1189
Tobacconists	- - - - -	1192
Toilet Requisites Dealers	- - - - -	1193
Tools Dealers	- - - - -	1193
Tool Handle Makers	- - - - -	1194
Tooth Pastes & Powders Manufacturers	- - - - -	1194
Toy Manufacturers & Dealers	- - - - -	1195
Trade Mark Agents	- - - - -	1196
Tubewell Suppliers	- - - - -	1196
Turpentine & Rosin Manufacturers	- - - - -	1197
Type Foundries	- - - - -	1197
Type Metal Alloys	- - - - -	1198
Typewriter & Accessories Dealers	- - - - -	1198
Typewriter Ribbon Manufacturers	- - - - -	1200
Tyre Manufacturers	- - - - -	1200
Umbrella Cloth Manufacturers	- - - - -	1201
Umbrellas & Sticks Manufacturers	- - - - -	1201
Vaccines & Serums Manufacturers	- - - - -	1202
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Weaving Establishments	- - - - -	1208
Weighing Machine Manufacturers & Dealers	- - - - -	1210
Welding Companies	- - - - -	1210
Wig Dealers	- - - - -	1210
Wild Animals, Skin & Fat Dealers	- - - - -	1210
Wine Merchants	- - - - -	1210
Wine Nail Manufacturers	- - - - -	1213
Wine & Whinet Dealers	- - - - -	1213
Wood Works	- - - - -	1213
Wool Merchants	- - - - -	1214
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## TECHNICAL INSTITUTIONS

- Agricultural & Sericultural Institutions - - - - - 599**  
 Agricultural College, Cawnpore p. 599—Agricultural College, Coimbatore p. 599—Allahabad Agricultural Institute p. 600—Chinsurah Govt. Agricultural School p. 600—College of Agriculture, Nagpur p. 600—College of Agriculture, Poona p. 601—Dacca Secondary Agricultural School p. 601—Imperial Agricultural Research Institute p. 602—Mysoie Agricultural School p. 602—Punjab Agricultural College p. 602—School of Agriculture, Bulandshahar, U.P. p. 603—Sericultural Schools p. 604—Supplementary List p. 604
- Schools of Arts and Crafts - - - - - 604**  
 Government School of Art p. 604—Mayo School of Arts, Lahore p. 605—School of Arts and Crafts, Madras p. 605—School of Arts, Tiruvandrum p. 605—Indian Art School p. 606—Indian League & Albert Temple of Science & School of Arts p. 606—Indian Society of Oriental Art p. 606—Maheshwarpasa School of Art p. 606—Government School of Arts and Crafts Lucknow p. 607—Government School of Arts & Crafts, Poonamallee Road, Madras p. 607—Sir J. J. School of Art p. 608—South Indian School of Arts p. 608—Supplementary p. 608
- Commercial Institutions - - - - - 608**  
 Alexandria College of Commerce p. 608—All India Railway Training, Medical and Art College p. 609—American Correspondence College p. 609—Batlibori's Accountancy Classes p. 609—Coronation Commercial College p. 609—Dava's College of Commerce, Law, Economics & Banking p. 610—George Phonetic School p. 611—George Telegraph Training Institute p. 611—Government Commercial Institute p. 612—Indian Merchants' Chamber p. 612—Jupiter Commercial College p. 613—Lucknow Christian School of Commerce p. 613—Premier Institute of Commerce p. 613—Premier Telegraph Training College p. 613—Salesmanship Training Institute p. 613—Satyanarain Commercial Institute p. 614—Society of Commerce p. 614—Sydenham College of Commerce and Economics p. 614—Supplementary List p. 614
- Engineering Schools and Colleges - - - - - 615**  
 Academy of Engineering p. 615—Ashanullah School of Engineering, Dacca p. 615—Benares Hindu University Engineering College p. 616—Bengal Engineering College p. 617—Bengal Survey School, Bankura P.O. p. 619—Bengal Survey School, Bankura p. 619—Bihar College of Engineering p. 619—Calcutta Engineering College p. 620—Civil Engineering Institute, Ludhiana p. 620—College of Engineering, Bangalore p. 620—College of Engineering, Madras p. 621—College of Engineering, Poona p. 621—College of Engineering and Technology, Bengal p. 622—Engineering College, Osmania University, Deccan p. 623—Government Engineering School p. 624—Government School of Engineering, Punjab p. 624—Hewett Engineering College p. 624—Indian School of Mines, Dhanbad p. 625—Nadir Shaw Edulji Dinshaw Civil Engineering College p. 626—Orissa School of Engineering, Cuttack p. 626—Provincial Institute of Engineering p. 627—Punjab College of



## 57A INDUSTRY YEAR BOOK & DIRECTORY, 1943

Engineering & Technology, Lahore p 627—Punjab Engineering Institute p 628—School of Civil Engineering p. 628—School of Engineering p 628—Thomason Civil Engineering College, Roorkee p 629—Travancore University, Trivandram, Travancore p 630—Supplementary Last p. 630	
Forest Colleges - - - - -	630
Indian Forest College, Dehra Dun p 630—Indian Forest Ranger College, Dehra Dun p 631	
Industrial and Technical Institutions - - - - -	632
Balasore Technical School p 632—Beiar Victoria Memorial Technical Institute p 632—Calcutta Technical School p. 632—Central Technical Institute, Lashkar Gwahar p 633—College of Industry and Trade p. 633—Crack Technical School, Lahore p 634—D B Technical School p 634—Dayanand Industrial School p 634—Department of Chemical Technology, University of Bombay p. 635—Diamond Jubilee Industrial School p 635—Eliot Banamali Technical School p 636—Fardunji Sorabji Parekh Technical Institute p 636—Government Carpentry School, Allahabad p 637—Government Central Wood Working Institute p 637—Government Industrial Schools, Bellary, Calicut, Madura p 637—Government Metal Working School, Aligarh p 638—Government Metal Works Institute, Ambala, p 638—Government Metal Works Institute, Sialkot, p 638—Government Rattan, Carpentry & Smithy School, Trivandrum p 638—Government School of Technology p 639—Government Technical School, Gorakhpur p. 639—Do Jhansi p 640—Do Lucknow p 640—Government Trades School p 640—Haicourt Butler Technological Institute p 640—Hindu Industrial Institute, Calcutta p 641—Imperial Institute of Sugar Technology, Cawnpore p 641—J N Tata Hunaishala (Technical School) p 641—Jamshedpur Technical Institute p 642—Kala Bhavan Technical Institute p 642—Kerala Soap Institute p 643—Lal Singh Man Singh Industrial School p 643—Moberly Technical School p. 643—Municipal Mahila Shilpa Bhaban p 644—O'Brien Technical Institute, Kolhapur p 644—Prem Maha Vidyalaya p 644—Ranchi Technical School p 645—Sri Chamarajendra Technical Institute p 645—Sri Krishna Rajendra Silver Jubilee Technical Institute p 645—Sri Meenakshi Technical Institute, p 646—Technical College, Dayalbagh p 646—Technical School, Kanchiapara, p 646—Tirhut Technical Institute p 647—Victoria Jubilee Technical Institute p 647—Vishwa Bharati p 648—Supplementary Last p 648.	
Mercantile Marine - - - - -	648
Indian Mercantile Marine Training Ship Dufferin p. 648	
Miscellaneous Institutions - - - - -	649
Anbian's College p 649—Automobile Engineering Institute, p 649—Calcutta Dental College and Hospital p 650—City Dental College & Hospital p 650—College of Dentistry p 650—French Motor Car Co, Ltd p 650—Gosaba Rural Reconstruction Institute p 650—Indian Association for the Cultivation of Science	

- p 650—Indian College of Naturopathy p. 650—Indian Institute of Science p 651—Indian Optical Institute & Refraction Hospital p. 652—Nair Hospital Dental College p 652—Saroj Nalini Industrial School for Women p 652—School of Chemical Technology p 653 School of Handicrafts p 653—School of Motoring p 653—Sri Zarhosti Mandal & Sri Ratan Tata Industrial Institute p 653—Ushagram Educational Colony, Asansol p 653—Victorial Tailoring and Cutting College p 653—Supplementary List p 653
- Ordinance Factories - - - - - 654  
Gun and Shell Factory p 654—Indian Ordinance Factories, Ishapore, Nilgiris p 654
- Radio Training Institutions - - - - - 654  
Abdulla Fazalbhoy Institute, Bombay p 654—Chicago Radio Institute p 655—E M F. Technological Institute p 655—Institute of Radio Technology p 656—Radio Electric Institute p 656—Supplementary List p 656
- Tanning Institutions - - - - - 656  
Bengal Tanning Institute p 656—Government Leather Working School at Cawnpore p 657—Government Leather Working Institute p. 657—Government Tanning School p 657—Leather Trades Institute p 658 Leather Working School p 658—Municipal Leather Working School, Allahabad p 658
- Veterinary Dairv and Poultry Institution - - - - - 658  
Bengal Veterinary College p 658—Bombay Veterinary College p 659—Government Poultry Farm p 659—Imperial Dairy Institute p 659—Madras Veterinary College p 660—Punjab Veterinary College p 660—United Provinces Poultry Association p 661—Supplementary List p 661
- Weaving and Dyeing Institutions - - - - - 661  
Bengal Silk Technological Institute p 661—Bengal Textile Institute p 662—Government Central Weaving Institute p 662—Government Central Textile Institute p. 662—Government Central Weaving Institute, Amritsar p 663—Government Cottage Industries Institute p 664—Government Weaving & Cloth Printing School p 664—Government Weaving Institute, Gauhati p 665—Lalkuti Hosiery School p 665—Pioneer Hosiery College p 665—Ranchhodlal Chhotatal Technical Institute p 666—Textile Institute p 666

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## INDEX TO ADVERTISERS

A Alladin & Sons	--	725	Astiological Magazine	--	1245
A Tosh & Sons	--	1177	Auto-Scales & Eng Co	--	1211
A M Mullick & Co.,	--	28	Azad & Co (Regd)	--	983
A T Alihusain & Co.,	--	1082	B Sinha & Co.,	--	919
Acharya Profulla Ch	Cot-		B C Patel & Co	--	1044
ton Mills Ltd	-	825	B K Saha & Bros Ltd	--	1177
Acme Trading Co	--	1043	Balmer Lawrie & Co, Ltd.		
Adcco Ltd	--	7		Front Cover	
All India Spring Mfg Co	--	1137	Bagri Mining Syndicate	782,1007	
Alpha Trading Co	--	1102	Bank of Commerce Ltd	--	240
Aluminium Mfg Co, Ltd			Bank of Calcutta Ltd	--	13
	Book Mark		Bansidhar Dutt	--	925
Akhoy Kumar Laha	--	60	Barnagore Pioneer Ch		
Amitava Trading Co	--	760	Works	53, 1046	
Anglo Indian Boots Trad-			Bareilly Corpn (Bank) Ltd	--	11
ing Co	33, 980		Basack & Sons	--	47
Annapurna Metal Works	44		Basanti Prov Ins Co, Ltd	--	954
Anoompa Chemical Works			Basic Chemical Industries		
	Facing Page 56		(India) Ltd	--	27
Aishiby & Co	--	1045	Basmall & Co (India), Ltd		
Aryan Bank Ltd	--	64		48, 49, 50, 52	
Aryan Mining & Trading			Basumati	--	71
Corporation Ltd	--	1009	Bata Shoe Co, Ltd	4th Cover	
Asiatic Oxygen & Acety-			Bengal Bank Ltd	--	703
lene Co, Ltd	--	1034	Bengal Belting Works Ltd	--	33
Associated Drugs & Che-			Bengal Bobbin & Plywood		
mical Concern	--	13	Co, Ltd.	--	47, 1064

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Bengal Share Dealers' Syndicate	1149	Calcutta Glass Blowing Works	Facing Page 57
Bhagwandas Hassomal	862	Calcutta Horn Mfg Co	929
Bhagwandas K Punjabi	1143	Calcutta Industrial Chemicals & Minerals Co, Ltd	770
Bhalchandra Ch Works	1194	Calcutta Mineral Supply Co, Ltd	715, 1130
Bharathamatha Coffee Works (Regd)	804	Calcutta Miscellaneous	892
Bhartiya Eng Works	1315	Calcutta Spring Mfg Co	1139
Bholanath Dutt & Sons Ltd	65	Central Calcutta Bank Ltd	8
Bindra Bros	1049	Charan Hosiery Mills	1314
Biswa Pharmacy	845, 1047	Chellaiam Hassomal	965
Bombay Mutual Life Assurance Society Ltd	43	Chemical Industries Co, Ltd	771
Borivli Hosiery Factory	931	Chicago Eng Works	756
British India Spring & Steel Co	51	Chowringhee Camera Stores	1053
British Mfg Co	14	City Bank Ltd	63
C E M Works, Ltd	16	City of Calcutta Provident & Annuity Society Ltd	43
C G Depot	737, 1145	Clyde Fan Co Ltd	3
C K Sen & Co Ltd	Facing Page 448	D N Bose's Hosiery Factory	1107-1119, 932
Calcutta Bankers Ltd	7	D A M Sui	688
Calcutta Carbon Brush Mfg Co	35	Dacca Button Works	748

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Dass Bros & Co	—	1118	Globe Typewriter Co.	—	57B
Dato's Mineral Supply Co	—	757			1087, 1200
Dawn & Co (Bombay)	—	994	Gocoola Doss Jumna Doss	—	
Dawn & Co (Calcutta)	—	2	& Co	—	46
Dharam Chandra & Co	—	960	Gold Filled Leather Works	—	978
Diamond Metal Products	—		Gomathi	—	1260
Co	—	984	Government Oil Factory	—	997
Diwan Chand Piem Nath	—	62	Greentose Corp (India)	—	1006
Dorabji R Messman &	—		Gulam Nabi & Sons	—	51, 1019
Son	—	8	H L Anand & Bros.	—	17
Dutta & Co	—	42	H L Sett & Sons	—	36, 759
Eagle Advertising Tape	—		H S Das	—	1066
Factory	4, 1216		Haji Vallumohomed Alli-	—	
East India Trading Co	—	67	mohomed & Co.	—	
Eastern Type Foundry &	—				Facing Page 1165
Oriental Ptg Works Ltd	—	1197	Havero Tea Co	—	1179
Electrical Storage Co	—	39	Hazel & Cedar	—	Facing Page 36
Esavi India Match Mfg	—		Hazrad Bank Ltd.	—	13
Co	—		Hindusthan Co	—	Facing Page 38
Essco Ltd	—		Hindusthan Aromatics Co	—	
G A Misra Ayurvedic	—				Facing Page 1165
Pharmacy	—	699	Hindusthan Industries Co	—	766-768
G G Dandekar Machine	—		Ideal Fruit Preserving	—	
Works Ltd	—	1094	Co.	—	753, 814
G S Emporium Ltd	—	38	Im Ashianee	—	40
Gouri Shankar Ram	—		Imperial Stores Supply Co	—	41
Narain	—	761-774	Imperial Tea Co	—	1178

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Indian Cable Co Ltd Hinge Back		Kuvei Bank Ltd	7
Indian Clock Mfg Co Ltd	24	Lachmi Sahai & Co	- 16
Indian Colour Industries	29	Land Trust of India Ltd	681
Indian Conduit Industries	856	Law Murray & Co	32, 1005
Indian Herbalists Pty Ltd	925	Liberty Chemical Products	
Indian Mineral Industries		Facing Page	768
Facing P	1010	M Abdulla & Co	6
Indian Mutual Life Association Ltd	951	M. B Sirkai & Sons	- 963
Indian Scientific Stores	49	M Dhar Co Ltd	958
Indo-Burma Spring Mfg Co	26	M L Bose & Co Ltd	42, 1048
Jas Alexander & Co	865	M M Mullick & Co	- 41
J B Mangalam & Co	721	Makhan Lal Karmakar	15
J B Thacker & Co	820	Maya Engineering Works,	1083
Jain's Ink Depot	38, 946	Metropolitan Ins Co Ltd	59
Jaya Bharat Mills	Facing P 1011	Mica Mining & Trading Co	1003
Jayanti Glass Works Ltd	907	Modern Stationery Mart	
Jeena & Co	677	Facing Page	39
Jibon K Dey & Bros	- 30	Modern Traders	19
K C Paul & Co Ltd	43, 885	Modern Ware House	5
K L Dutt & Co	1072, 1141	Modgil & Co	40, 871
K Roy & Co	- 917	Monga Elec Co	Facing Page 39
Kalsi Mech Works	Facing P 1035	Moolji Sicka & Co	58
Katrik Mantle Works	990	Mukherjee Ray & Co	20
		National Bias Binding Works	726

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Orphan Press	1073	R Satyanarayan	1206
Orphan Tea Co	1180	Radha Bazar Bottle	
Oster Chemical & Ph		Stores	34, 769
Works Ltd	15	Radha Krishna Sita Ram	
P B Shah & Co Facing Page	38	Oil Factory	1027
P C Dawn & Co	32, 926	Rajani K Datta Facing Page	57
P M Wishkhooi & Co	683	Rajeshwar Pd Karai-	
P S Dutt & Bios	35	wale	9
P V Ramakrishna Chetty		Rast Guftai Facing Page	1164
& Bios	922	Ratna Sugar Mills Co Ltd	53
Pandit P K Goswami	695	Ravi Bios	10
Paper Product Co Facing P	1034	Research Industries Ltd	1014
Pioneer Comm Bank Ltd	14	RoiCo Facing Page	37
Pioneer Drug & Chemical		Royal Automobile & Elec-	
Works Ltd	996	tric Works (Regd)	757
Pioneer Paper & Pulp Ld	52, 1151	S A Latif & Company	979
Poly Products	947	S Amdu M Yousuf	881, 942
Popular Chemical Works	37, 1110	S Antool & Co Ltd	37, 760
Popular Pharmacy Ltd	36, 39	S C Dass & Co	1093
	1032, 1055, 1085	S K Sen & Co	783
Premier Mica Mining &		S R Das	853
Mfg Co	1003	Sale Organisation Society	3
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Sen & Co	760, 1126	Tatanagai Foundry Co Ltd	54
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Shree Laxmi Slate Works	1123	Textile Waste Co	833
Shri Rajasthan Ayurvedic		Titaghur Paper Mills Co	
Pharmacy	10		Facing Page 1041
Shree Bank Ltd	13	Tolaram Ramdass & Co	1111
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Standard Stationery Mfrs			Facing Page 56, 946
Ltd	25	United Provinces Glass	
Stores Supply Syndicate	61	Works Ltd	55, 908
Subol Dutt & Sons Ltd	17	United Supply Agency	1008
Sun Knitting Mills	58	Universal Card Board Box	
Surendra Nath Ghose &		Factory	759, 1042
Co	4, 34, 887, 921, 959	Universal Talkies	9
Swarka Ch & Mineral Co		Upendra N Mullick & Co	958
	Facing Page 769	Varat Plywood	1065
Swarka Fertilisers Ltd		Venus Plywood Mfg Co	1065
	Facing Page 769	W H Harton & Co Ltd	1097
Swarka Oil Mills	Facing P 449	Young Graduate & Co	50, 1138

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Abbottabad	—	529	Ajmurganj	—	523
Abdullapur	364,	483	Ajodhya	—	466
Abohar	—	487	Akalkot	—	550, 551
Adabat	—	545	Akaltara	—	508, 509
Adamdighi	—	360	Akbarpur	—	435, 466
Adapar	—	433	Akkelpur	—	360
Adasa	—	515	Akluj	—	399
Adirampatnam	—	423	Akola	—	505
Adoni	408,	409	Akot	—	505
Agarpara	—	380	Akrabad	—	452
Agasthiampalli	—	422	Alangudi	—	588
Agia	450,	451	Alagapuri	—	588
Ahmadavalasa	—	547	Alampur	—	371
Ahmedabad	382,	388	Alarayat	—	588
Ahmednagar	—	388, 389	Alewakhwa	—	366
Ahmedpur	—	359	Ahibag	—	394
Ahobilam Upper & lower	—	415	Aliganj	—	464, 479
Ahaura	—	474	Aligarh	449,	450, 451
Aiho	—	371	Alinagar	—	459
Ait	—	469	Alipur	—	370
Ajaipur	—	371	Allahabad	450,	451, 453, 454
Ajgacha	—	376	Allapalli	—	510

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Alleppey	..	593	Aisikere	583
Almora	-	454	Aruppukottai	420, 421
Alunda		359	Arvi	518
Alwar	551, 552		Asansol	.. 361
Amalapuram	..	411	Aska Tahsil	.... 547
Amalner	392, 393		Assam	- 519
Amani	..	358	Athgarh	.. 563
Amarkantak	..	591	Athmalik	563, 564
Amarpur	..	432	Atmakur	.. 418
Ambala	-	484	Atrauli	.. 452
Ambasamudram		423	Attarra	.. 457
Ambhora	..	515	Attock	.. 485
Amgaon		508	Atui	.. 422
Amingad	-	390	Auraiya	449, 465
Aminganjhat		371	Aurangabad	435, 568
Amla	-	507	Ayyampet	422, 423
Amligola	..	364	Azamgarh	449, 450, 454
Ammapat		423	Babal	.. 512
Amod	382, 391		Backerganj	.. 357
Amraoti	..	506	Badagala	.. 418
Amreli		554	Badampahar	.. 580
Amritsar	483, 484, 485		Badarpur	.. 520
Amroha	..	475	Badhni	.. 437
Ammalatnam	..	423	Badnawar	.. 562
Amtah	....	358	Badnera	.. 506
Anakapalli	..	426	Badra	.. 580
Anand	....	393	Badungah	.. 379
Anandgarh		591	Badunia	.. 380
Anantapur	405, 406		Badvel	.. 411
Anantharajupet	..	411	Bagaha	433, 434
Anantpura	516, 517		Bagalkot	.. 390
Andesongunj	..	495	Bagdia	.. 546
Andhargao	..	508	Bagehat	370, 371
Andoli	..	453	Bagha	.. 487
Andul	..	368	Baghia	.. 366
Angul	..	546	Baghpat	.. 473
Anjangaon	..	506	Baglan	.. 395
Anjai	....	561	Bagmara	.. 378
Anji	..	518	Bagri	.. 572
Ankeleswar	..	391	Bahadungah	.. 498
Ankola	..	393	Bahadurpur	458, 490
Annigeri	....	391	Bahadurpur Ghat	.. 521
Antargarh	..	555	Baharamghat	.. 457
Anupshahi	461, 462		Bahawalnagar	.. 552
Aonla	..	458	Bahawalpur	552, 589
Arafwala	..	496	Bahjoi	.. 474
Arambagh	..	368	Bahloli	.. 489
Arawal	....	435	Bahraich	.. 455
Aicot, North	..	406	Bahraj	.. 468
Aicot, South	..	407	Baidya Bazar	.. 365
Arimalam	..	588	Baidyabati	.. 367
Arivalur	..	424	Baihar	.. 507
Ajundah	..	516	Bandur	.. 414
Aikonam	..	407	Banti	.. 478
Armori	..	510	Barragha	.. 439
Aini	406, 407		Bairia	.. 456
Ariah	..	446	Baisari	.. 358

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Bajitpur	373, 374	Balwali	—	460
Bakaro	— 436	Bamankuva	—	391
Bakri Bazar	— 438	Bamantala	—	363
Bala	— 371	Bamhni	—	513
Balabagh	— 489	Bamhndh	508,	509
Balaganj	— 523	Banra	—	563
Balagaih	— 361	Bamolikhuud	—	391
Balaghat	506, 507	Banahel	—	508
Balakathi	— 548	Banak	—	520
Balapur	— 505	Banapura	—	512
Balarambati Union	— 367	Bancharampur	—	379
Balarampur	— 468	Band	—	564
Balasore	543, 544	Banda	456,	457
Baleh	516, 545	Bandha	—	479
Bali	564, 572	Bangalore	582, 583, 584,	585
Balia Nawabganj	— 371	Bangaon	—	432
Bahadanga	— 374	Bangarman	—	480
Balighattam	— 426	Banka	432,	433
Balipeta	— 426	Bankapur	—	391
Balibhganj	— 555	Bankhei	—	512
Ballaipur	— 509	Bankot	—	398
Ballia	359, 456	Bankipuri	—	441
Balidewanganj	— 367	Bankura	—	358
Ballupara	— 369	Banmankhi	—	442
Bally	367, 369	Bannu	—	528
Baloda	508, 516	Banoripara	—	358
Balucha	— 373	Banrpal	—	546

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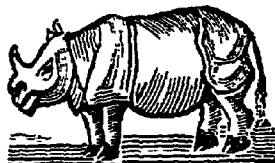
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Bansa	361, 517	Baupur	548
Bansa-Tai-Kheda	517	Bawaliha	558
Bansberia	367	Bawantheri	511
Banskai	575	Bazia Sukul	479
Bantia	546	Bedi Port	585, 586
Banvasi	394	Begamabad	473
Bapatea	412	Begumgunj	375
Baoh	473	Begumpui	367
Barabanki	457	Begusarai	438
Barachakia	434	Behar	360
Baradi	374	Behea	445, 446
Baraduar	508	Behra	492
Barahapjan	521	Bekal	413
Barahat	432	Bela	439, 476, 477
Baramba	564	Belaguppa	405, 406
Baranagar	379, 380	Belapur	389, 400
Barapaka	357	Belavdi	398
Baraset	380	Belgach	366
Baraut	473	Belgaum	389
Barbigha	438	Belgharia	380
Bardal	370	Belhai	432
Bardi	558	Behadanga	359
Barehta	512	Belka	378
Bareilly	450, 451, 457	Bellary	408
Barekel	516	Benares	449, 451, 459
Barela	513	Bengal	349
Bargaih	549	Bera	376
Barghat	511	Beran	579
Bargoa	558	Berdi	511
Barh	441	Berhampore	547
Barhaya	438	Berhampui	372, 373
Bariaurpur	438	Betadahat	545
Barikpur	545	Beri	498
Baripada	580	Betamcheria	416
Barisal	358	Betgarh	379
Barikhala	523	Betnoti	580
Barmati	396	Bettiah	433, 434
Barmhan	512	Betul	507
Baroda	553, 554	Betul-Bazar	507
Baronda	516	Beypore	417
Barpali	549	Bezpada	414
Barpeta	522, 525	Bhabaniganj	377
Barrackpur	380	Bhabanipore	380
Barshalupara	365	Bhabua	446
Barsi	399	Bhadrak	545
Barsoi	442	Bhadravati	510, 584
Barua	370, 479	Bhadreswai	368
Baruva	547	Bhaduha	359
Basantapur	371	Bhagalpur	431, 432
Basu Ghulam Hussain	490	Bhagawangolla	372
Basim	505	Bhaiab	373
Basirhat	380	Bhairabbazar	373, 374
Bassein	400	Bhakkar	496
Bastar State	554	Bhaktapore	597, 598
Basti	458	Bhanatirtham	424
Batala	488	Bhandara	507, 508
Batanagar	380	Bharain	410

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Bharatpur	372, 555, 556	Biratnagar	598
Bhatapara	509	Bubhoom	359
Bhatinda	586	Birgunj	366, 598
Bhatithua	464, 465	Birool	507
Bhatpara	380, 516	Birpura	452
Bhavnagar	556	Birsingha	372
Bhawantnagar	480	Bis Singhpur	590
Bhayavandar	565	Bilaspur	477
Bhelahi	433	Bisheswariganj	479
Bhera	498	Bishnupur	359
Bheraghat	513	Bishnuganj	479
Bhikampur	549	Bisra	564
Bhilsa	566, 567	Biswan	479
Bhimalgondi	510	Bitghai	378
Bhind	566, 567	Bobbil	426
Bhivandi	400	Bochaganj	366
Bhivani	489, 490	Bodinayakkamer	417
Bhola	350	Bogra	360
Bhola Chang	379	Bolpur	359
Bhopal	558	Boltuh	372
Bhopalpatman	555	Bombay	382
Bhorote	365	Bombay City	385
Bhowali	476	Bombay Presidency	381
Bhuairhat	375	Bonai	564
Bhuj	561	Bonpas	361
Bhukta	549	Borgaon	399, 511
Bhusawal	392, 400	Borjan	525
Bhusawar	555	Borsad	393
Bhutan	556	Botad	556
Bibiganj	442	Bowakhola	373
Bidar	568	Bowringpet	584
Bidpura	461	Biahmagundam	415
Bihar	428, 441	Biahmanberia	378, 379
Bihpur	432, 433	Biahmangaon	364
Bihra	440	Brajrajnagar	549
Bijapur	390, 568	Brindaban	475
Bijapur Tahsil	555	Broach	382, 390
Bijawar State	558	Bubak	540
Bijnhua Rajapur	479	Bucheki	499
Bijnor	459, 460	Budaun	460, 461
Bijonagar	557	Budge Budge	379
Bikapur	466	Budhanti	379
Bikaner	557	Budhar	378
Bikramganj	445	Budhabar	545
Bilaskhan	366	Budhlada	489
Bilaspur	461, 508, 589	Budhpara	376
Bilgram	469	Bulandshahr	461, 462
Bilheri	513	Buldana	509
Bilimora	553	Bulsai	400
Biliswar	364	Bundi	558
Bilparand	371	Bungamat	598
Bilsi	460	Burak	382
Billipatam	426	Burdair	378
Bina	517	Burdwan	361
Bindki	466	Burhanpur	515, 516
Binka	564	Burhwal	457

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Buichang	—	379	Chanduria	—	371
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Burrhat	—	377	Changana Cherry	—	593
Burnpur	—	361	Changdupail	—	377
Buxa	—	370	Chanpatia	—	433
Buxar	445, 446		Chaoribazar	—	502
Byadagira	—	405	Chapagaon	—	598
Byadgi	—	391	Chapalgaon	—	551
Cachar	—	523	Chapra	—	445
Calcutta	—	356	Char Iswardi	—	373
Cahcut	—	418	Chargaon	—	510
Calingapatam	544, 547		Charghat	—	377
Campbelpur	—	485	Charjotpiatap	—	371
Cannanore	—	418	Chaisadda	—	530
Castlerock	—	394	Chatmohar	—	376
Cawnpore	450, 451, 462		Chatra	359, 367	
Central India	—	558	Chaugacha	—	370
Central Provinces	—	505	Chauradand	—	433
Chaibassa	—	446	Chaul	—	395
Chainpatia	—	434	Chaulh	—	457
Chakaria	—	363	Chaumuhani	—	376
Chakia	—	433	Chaunapatna	—	583
Chakla	—	440	Chaurahat	—	560
Chaknagar	—	371	Chausa	—	446
Chakjhuma	—	495	Chhendipada	—	546
Chakwal	—	491	Chengam	—	407
Chalakudy	—	559	Chettubuckganj	—	458
Chahisgaon	392, 400		Cheyar	—	407
Chalna	—	371	Chhagalnaiya	—	375
Chamba	—	589	Chhapara	—	511
Champa	—	508	Chhatak	523, 526	
Champadanga	—	367	Chhendipara	—	546
Champanagar	—	432	Chicacole	—	547
Champan	—	433	Chicheh	—	512
Champawat	—	454	Chickawatni	—	496
Champdani	—	367	Chidamvaram	—	408
Chanchkoir	—	377	Chikballapur	—	583
Chanda	509, 510		Chikhl	—	509
Chandauli	—	459	Chikhodia	—	393
Chandauli	449, 451, 474		Chiknayanhalli	—	583
Chandbali	544, 546		Chilamatui	—	405
Chanderi	—	567	Chimur	—	510
Chandernagore	—	367	Chhindwara	—	510
Chandia	—	590	Chingleput	—	409
Chandul	—	437	Chiniot	—	491
Chandina	—	379	Chinsurah	—	368
Chandipur	—	379	Chiplun	—	397
Chanditola	—	367	Chipumpalli	—	425
Chandkhali	—	370	Chirala	—	412
Chandor	395, 396		Chirgaon	—	470
Chandrabali Hat	—	545	Chirir Bandai	—	365
Chandpur	379, 460		Christian	—	552
Chandrachona	—	363	Chitaldrug	583, 584	
Chandragunj	—	375	Chitor	—	594
Chandrakona	—	372	Chitrakut	—	457
Chandiapur	379, 508		Chittagong	362, 364	
Chandura	—	379	Chittur	—	560

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# 69 C INDUSTRY YEAR BOOK & DIRECTORY, 1943

Chopda	392, 400	Darrang	523
Choragallia	476	Darwani	378
Chotadhul	376	Darwha	518
Chotanagpur	428	Daryapur	506
Chowdhuri's Hat	375	Dasarata	366
Chuadanga	374	Dashtika	360
Chuharkana Mandi	499	Daskroi	388
Chunar	450, 474	Daspalla	564
Churamon	365	Dasuya	490
Ciosepet	583	Dattapara	375
Cocanada	411	Daudnagar	435
Cochin	417, 560	Daulatkhan	358
Cochin State	559	Daulatpur	371
Coimbatore	410	Daurala	473
Colachel	593	Dayalbag	451
Colgong	432, 433	Dehagram	374
Comilla	378, 379	Dehai	461
Conjeeveram	409	Debhata	371
Contai	372	Debiganj	369
Cooch Behar State	560	Debirbazar	365
Coondapoor	413, 414	Debipur	371
Coonoor	419	Debra	372
Colgong	432	Dehra Dun	463
Colonelganj	468	Dehri	445, 446
Cox's Bazar	362	Delhi	501, 502
Cuddalore	408	Delmarhat	376
Cuddapah	410, 411	Demra	376
Cumbum	415	Denla	380
Cutch	561	Deo	435
Cuttack	545, 546	Deoband	478
Dabhol	554	Deoghar	443
Dabwali	490	Deoh	518, 558
Dacca	364	Deora	366
Dadari	456	Deori	516, 517
Dadri	461	Dera-Ghazi-Khan	486
Dadu	537	Dera Ismail Khan	528
Dagar	364	Deshpur	372
Daharki	541	Deshpaha	563
Dahom	516	Devakottai	421
Dainhat	361	Devanur	584
Dalhousie	489	Devipatnam	421
Dalmai	478	Dewanjagar	371
Dalmianagar	446	Dharbansingh	499
Dalmiapuram	425	Dhaiya	437
Dalsingsarai	434	Dhama	549
Daltonganj	440	Dhamangaon	506
Damoh	507, 517	Dhammour	479
Dandot	492	Dhampur	460
Danji	453	Dhamrai	364
Dankaur	461	Dhamta	516
Dantewara	555	Dhamtai	516
Danpur	454	Dhanbad	437
Danton	372	Dhandhuka	388
Dapoli	397	Dhankol	366
Daranagar	454, 460	Dhankunia	364
Darbhangha	434, 435	Dhanti	378
Darjeeling	365	Dhanusukodi	421

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Dhapari	—	376	Dugguāla	—	412
Dhapewada	—	515	Dulmera	—	557
Dhar	561, 562		Dum Dum	—	380
Dharamavaram	—	406	Dumka	443, 444	
Dharamkot	—	487	Dumraon	—	446
Dharamnagar	—	379	Dumria	—	370
Dharampur	422, 562		Duralhati	—	377
Dharangadhra State	—	562	Dumgaon	—	380
Dharamsala	—	493	Duttapukur	—	380
Dharangaon	—	400	Dutt's Bazar	—	374
Dharapuriam	—	410	Dwaika	—	553
Dharmastala	—	414	Eastern Agency	—	563
Dharamavaram	—	406	Ediabad	—	392
Dharwar	391, 392		Endi	—	466
Dhebar	—	594	Ekadanta	—	376
Dhema	—	479	Ekbalpore	—	380
Dhemsha	563, 564		Elampur	—	370
Dhodambe	—	396	Elangdal	—	568
Dholai	—	523	Ellhapatti	—	588
Dholka	—	388	Ellchpur	—	506
Dhoraji	—	565	Ellore	414, 427	
Dhrol	—	563	Emmaneswalam	—	420
Dhronachellam	—	416	Englishbazar	—	371
Dhubri	—	524	Erandol	392, 400	
Dhulia	—	400	Erich	—	470
Dhulan	372, 373		Eranpura	—	572
Dhusurhat	—	545	Ernakulam	—	560
Diamond Habibow	—	380	Erode	—	410
Dibrugarh	521, 522, 525		Etah	449, 464	
Didwana	—	572	Etawah	449, 450, 464, 517	
Dig	—	556	Faguam	—	508
Digboi	521, 525		Faizpur	—	392
Dighaghat	—	441	Fandauk	—	379
Dighapatia	—	377	Fakirhat	—	371
Digras	—	518	Faiasdanga	—	367
Diguvametia	—	415	Faridkot	—	589
Digwara	—	445	Faridpur	—	366
Dimla	—	378	Farrukhabad	451, 465	
Dinapur	—	365	Fatehabad	—	490
Dinanagar	—	488	Fatehganj	—	458
Dinapuri	440, 441		Fatehpur	375, 457, 465	
Dindigul	—	416	Fateyabad	—	363
Dindori	—	395	Fazlika	—	487
Dinhata	—	560	Fazpur	—	375
Dishaband	—	378	Feni	—	375
Dodballapur	—	582	Ferozepur	486, 487	
Dogachi	—	376	Firozepur-Jhuka	—	489
Dohad	—	391	Firingbazar	—	364
Doiwala	—	463	Firozabad	450, 452	
Dolghat	—	363	Forbesganj	—	442
Domai	—	378	Foittabbas	—	552
Dandot	—	492	Fulbari	360, 373	
Doulatbad	—	568	Fultala	—	371
Dronadula	—	412	Furukhanagar	—	489
Drug	511, 516		Futwa	—	441
Dubalhati	377, 516		Fyzabad	449, 466	
Dubrajpur	359, 360		Gabhana	452, 453	

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# 69 E INDUSTRY YEAR BOOK & DIRECTORY, 1943

Gabkhan	358	Goari	374
Gabthali P S	360	Goashail danga	363
Gadag	391, 392	Gobindganj	438, 434
Gadarwara	512	Gobindapur	371, 437
Gadwal	568	Godagari	377
Gafargaon	373	Godavari	411, 598
Gaibandha	378	Godavary (West)	427
Gainari	508	Godda	444
Gajsinghpur	557	Goddumarri	406
Gaydundwar	484	Godhra	391
Gajapatinagaram	425	Gogameri	557
Galachipa	358	Gogho	388
Gandai	516	Gogli	438
Gangaghat	480	Gohana	498
Gangalwadi	510	Gojra	495
Ganganagar	557	Gokarn	394
Gangarampur	376	Gokak	382, 389
Gangpur	564	Gokulshibganj	360
Ganjam	543, 547	Gola	471
Gaori	514	Golaghat	522, 526
Garbeta	372	Gomnati	378
Garchuoli	510	Gonda	450, 467, 468
Garha	513	Gondal	565
Garhakota	516	Gondia	508
Garhdiwala	490	Goona	567
Garhi Khairo	542	Gooty	406
Garhwa	440	Gopalpur	375, 380, 544, 547
Garhwal	466	Gopinathpur	360
Garulia	380	Gorabazar	372
Garumahisani	580	Gorakhpur	468
Gasberia	363	Goria	366
Gauhati	522, 525	Gorupur	461
Gauriganj	479	Gosainganj	466
Gauripur	524	Gosalpur	513
Gautampura	570	Gossianmalpara	367
Gaya	435, 436	Gouripur	374
Gaydundwara	464	Gourjhamar	516
Gazirhat	370	Gowari	510
Gazole	371	Goyeshpur	371
Gewardha	510	Gudalur Taluk	419
Ghatal	372	Gudiyattam	407
Ghatkal	394	Gundur	415, 418
Ghausganj	469	Guhla	493
Ghaziabad	413	Gujai Khan	498
Ghazipur	467	Gujanwala	487
Ghodbunder	383	Gujrat	488
Ghodgeri	389	Gujri	562
Ghorashan	423	Guledgad	390
Ghoih Mukteshwar	473	Guna	567
Ghospara	375	Gunabati	378
Ghotki Town	541	Gunjar	378
Ghugus	509	Guntakal	406
Ghumsur	547	Guntur	412
Gidderbaha	487	Gunupur	548
Girdih	436	Guptaganj Bazar	479
Goalpara	522, 524	Gurdaspur	488, 489
Goalundo	366	Gurgaon	489

Thick Type insertions in these pages are Profit Making—Surely.  
INDUSTRY, 22, R. G. Kar Road, Shambazar, Calcutta.

Gurua	—	435	Hazaribagh	—	436
Gurudaspur	377,	488	Hazipur	—	439
Gurumahisini	—	564	Hazro	485,	486
Gwalior	558, 566,	567	Hebsur	—	392
Habiganj	—	523	Heggadadevankot	—	583
Hafizabad	487,	488	Hilsa	—	441
Haiderabad	—	480	Hindol	—	563
Hailakandi	—	523	Hindoria	516,	517
Hajpur	379,	439	Hindumalkote	—	557
Hajratpur	—	359	Hindupur	—	406
Hala	382, 537,	538	Hinganghat	517,	518
Haldibari	—	560	Hingirremapa	—	549
Haldwani	—	476	Hingoli	—	569
Haldwar	—	460	Hirapur	361,	558
Halisahar	—	380	Hirdagarh	—	510
Hahyataluka	393,	394	Hirdenagar	—	513
Halol Mahal	—	391	Hissar	489,	490
Hamirpur	468,	493	Hodal	—	489
Hampankatte	—	413	Hohanickol	—	421
Hampasagaram	—	408	Homnabad	—	379
Handia	—	512	Honavar	382,	394
Hangarakatta	—	414	Hongal	—	389
Hansanpur	—	489	Hooghly	—	367
Hansi	489,	490	Hosangabad	511,	512
Hapur	—	473	Hosdrug	—	413
Harad Taluk	—	398	Hoshnarpur	490,	491
Harda	—	512	Hospet	408,	409
Hardoi	450,	469	Hosur	—	421
Haidwar	—	478	Howrah	—	368
Harekal	—	413	Hubli	391,	392
Hariharganj	—	440	Huma	—	549
Harinagar	371,	433	Hurlong	—	440
Haripal	—	367	Hussainabad	—	440
Haripur	379,	529	Hyderabad (Sind)	537,	538
Harnal	—	397	Hyderabad (State)	—	568
Harpanahalli	—	408	Hyderpur	—	371
Harsiddhi	—	598	Ichagarh	—	437
Harsud	515,	516	Idlabad	—	569
Harunabad	—	552	Igatpuri	—	396
Hasanabad	—	380	Ilkal	—	390
Hasangunj	—	430	Illambazar	—	359
Hasanpatti	—	568	Imamganj	—	435
Hasayan	—	453	Indapur	—	396
Hasilpur	—	552	Indoria	558, 569,	570
Hassan	—	583	Indur	—	568
Hastavaram	—	411	Irde	—	414
Hasupi	—	409	Irinjalakuda	—	560
Hat Boaha	—	374	Isapur	—	509
Hathazari	—	363	Ishapur	—	380
Hathras	449, 451, 452,	453	Iskapalli	—	419
Hathwa	—	445	Islampur	372, 441,	442
Hatiya	—	375	Itahar	—	365
Hatta	—	517	Itarsi	—	512
Hattikerni	—	393	Itna	—	373
Hattin	—	489	Izatnagar	—	458
Haveri	—	392	Jabairpur	—	491
Hazara	—	529	Jacobabad	—	542

Thick Type insertions in these pages are Profit Making—Surely.  
INDUSTRY, 22, R. G. Kar Road, Shambazar, Calcutta.

# 69 G INDUSTRY YEAR BOOK & DIRECTORY, 1943

Jafarabad	570, 571	Jaunpur	469, 470
Jafraganj	466	Jawad	567
Jagadhri	484	Jawal	507
Jagdulpur	554, 555	Jawala	493
Jagdeopur	568	Jedigudde	413
Jagirhat	365	Jawla Mukhi	493
Jagraon	495	Jenodpur	378
Jahanabad	435	Jeppu	413
Jahangirabad	461	Jessore	370
Jahangirpur	371	Jetalsai-Raykot	566
Jahar	515	Jewar	461, 462
Jai Sinagar	516	Jeypore	432, 548
Jalgarh	397	Jhabua	558
Jainagar	434, 435	Jha-Jha	438
Jamtia Hills	520, 525	Jhajhai	461
Jaipur	571, 572	Jhajjar	498
Jais	477	Jhalakati	358
Jaitapur	398	Jhalda	437
Jaitaran	572	Jhalod	391
Jajjal	518	Jhang	491
Jakhan	561	Jhang-Maghiana	491
Jalalpur	466, 488	Jhanyharpur	434
Jalalpur Jattan	489	Jhansi	449, 450, 470, 471
Jalan	569	Jharadihi	580
Jalaun	469	Jharia	437
Jalesar	464	Jharsa	489
Jaleswar Hat	545	Jhelum	491
Jalgaon	392, 400, 509	Jhenidah	370
Jaloo	494	Jholla	369
Jalpanguri	369	Jhusi	454
Jam	508	Jlaganj	372
Jamalgunj	360	Jind	589
Jamalpur	374, 437	Jodhpur	572
Jambhor	435	Jodiya	585
Jambulgata	510	Johi	513
Jambuser	391	Jorhat	521, 522, 526
Jamjherhat	545	Jorkaran	379
Jammalamdagu	411	Jorpokri	370
Jammu	574	Jubbulpore	512, 513
Jamnagar	585	Jugana	461
Jampur	486	Jullundur	484, 492
Jamsai	557	Junagadh	573
Jamtara	444	Junner	396
Jamthi	393	Junnor-Deo	510
Jamui	438	Jyot	371
Jamurla	549	Kachpur	364
Janardanpur	363	Kadamalakalwa	415
Jangipur	372	Kadayanallur	424
Janjgar	508	Kadarganj	435
Jaranwala	495	Kadiri	406
Jarcha	461	Kadipur Tahsil	479
Jarpara	546	Kadur	583
Jashipur	580	Kagmai	373
Jashpara	378	Kahuta	498
Jashpur	476	Kaikala	367
Jaswantnagar	464	Kamahra	471
Jaunia	365	Kaira	393

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Kairana	---	475	Kantarhat	---	546
Kaithal	---	493	Kanthalia	---	372
Kalaichuck	---	371	Kantilo	---	564
Kaladhungi	-	476	Kapadwanj	--	393
Kalahandi	-	564	Kapaganj	-	455
Kalahasti	-	410	Kapilmuni	---	371
Kalam	---	376	Kapurthala	-	589
Kalanaur	---	498	Karachi City	--	536
Kalaskati	---	358	Karachi District	--	588
Kalbagh	---	495, 496	Karad	---	398, 399
Kalhapur	---	568	Karalkudi	-	421
Kaliganj	370, 374, 377	371	Karajagi	-	551
Kahgram	---	371	Karambakkudy	---	588
Kalikapur	---	378, 379	Karanbas	---	462
Kahmpong	-	365	Karanda	---	467
Kali Nagar	---	477	Karanja	---	394, 505
Kalpur-Kandha	---	359	Karanjua	---	580
Kalsoni	-	358	Karanpui	---	442, 557
Kalitola	---	373	Karanpura	---	436, 443
Kalka	-	500	Karauli	-	573
Kallankurichi	-	425	Karbar	-	539
Kallidaikurchi	-	423	Kargon	-	373
Kallinpalai	-	421	Karidha	---	359
Kallukaranpatti	---	588	Kariganapalli	-	405
Kallurkot	---	496	Karimganj	---	374, 526
Kalna	---	361	Karipur	---	378
Kalol	---	391, 554	Karkheli	---	569
Kalpi	---	469	Karmala	---	399
Kaluvoy	---	419	Karmatauri	---	443
Kalyan	---	395, 400	Karnal	---	493
Kamalapuram	---	411	Kartwa	---	457
Kamalia	---	495	Karvetonagar	-	410
Kaman	-	558	Karwar	---	393, 394
Kamarhati	---	379	Karwi	---	457
Kamarpara	---	366	Kasaiagod	---	413, 414
Kamibai	---	540	Kasauli	-	485
Kamarpara	---	366	Kasba	---	442
Kampli	-	408	Kasganj	---	464
Kamptee	-	514	Kashipuri	---	476
Kamrup	-	524	Kashmir	---	574
Kamtaul	-	434	Kashmore	---	382
Kanana	---	382, 393	Kasoda	---	392
Kanara South	---	413	Kasur	---	494
Kanauj	---	465	Katakhal	---	363
Kanchannagar	-	361	Katalbari	---	366
Kanchiagara	-	380	Katangi	---	507, 513
Kandhkot	---	542	Katchhidhana	---	510
Khandi	---	372, 373	Kathiadi	---	374
Kandipai	---	379	Kathiadi	---	374
Kaneri	---	508	Kathiawar	---	576
Kangra	---	493	Kathmandu	---	597
Kanigiri	---	419	Katihar	---	442
Kankanhali	---	583	Katni	---	513
Kanker Khera	---	473	Katol	---	514
Kankinara	---	380	Katwa	---	361
Kanshalipala	---	371			

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# 69 I INDUSTRY YEAR BOOK & DIRECTORY, 1943

Kavi	391	Kheda	507
Kayalpatam	423	Khelari	443
Kayancolam	593	Kheri	450, 471
Keelakadu	420	Khetur	377
Keeranur	588	Khewra	491, 492
Kelod	514	Khiriawan	435
Kemmangundi	584	Khirkiya	512
Kenduli	360	Khitola	513
Keonjhar	564	Khokna	598
Kerakat	470	Khoksa	374
Kesabari	365	Khulna	370
Kesariya	434	Khunta	580
Keshabpur	370	Khurai	516, 517
Keshabpur Venipara	376	Khurda	548
Keshpur	372	Khurja	449, 461, 462
Kesringshpur	557	Khusab	498
Kessaria Ghats	433	Kilakara	421
Ketibander	539	Killanur	589
Khagara	438	Kiranpur	507
Khagoda	382	Kiratpur	460
Khagra	372	Kirkee	396
Khanabad	479	Kirnahar	359, 360
Khair Tahsil	453	Kirtipasha	358
Khajuha	460	Kirtipore	598
Khajura	370	Kishanganj	432, 442
Khalakhali	365	Kishanpur	466, 473
Khamaria	471	Kishoreganj	373, 374
Khamarkishorpur	378	Kistna	414
Khamarpara	380	Koch	463
Khamgaon	509	Kodai Kanai	416
Khammamet	569	Kodibag	393
Khanapur	389	Kodur	411
Khanderi	395	Kohat	529, 530
Khandesh, East	392	Kohima	526
Khandesh, West	400	Kojuri	376
Khandpara	564	Koila Sobhasingh	500
Khandwa	515, 516	Koilpatti	423
Khanewal	497	Kolaba	394
Khankhanapur	366	Kolar	583, 584
Khanua	494	Kolhapur	508
Khanot	382	Kollegal	410
Khanpur	552	Kondagaon	555
Khanshama	365, 366	Kondapalli	414
Khantapara	545	Kondhali	515
Khapa	514	Konguali	389
Kharagpur	372, 438	Kopal	569
Kharangna	517	Kopargaon	339
Kharai	372	Koppanapatti	588
Kharba	371	Kora	391
Khari Baoli	502	Koranad	422
Khariar Road	549	Koraput	548
Khasi Hills	520, 525	Korea	564
Kham	487	Kosalakudy	588
Khavda	561	Kosegi	409
Khed Village	397	Kosgi	568

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Kosla	—	546	Kuzhithura	—	594
Kota	—	508	Kymore	—	513, 558
Kotagiri	—	419	Labpur	—	359
Kotah State	—	578	Laharpur	—	371
Kotali	—	366	Laheriasarai	—	435
Kotchandpur	—	370	Lahirihat	—	366
Kotmi	—	509	Lahore	—	483, 484, 494
Kotrung	—	568	Lahul	—	493
Kottai	—	593	Lakhimpur	—	471, 520, 523, 525
Kottayam	—	593	Lakhimpur	—	395, 523
Kovvi	—	419	Lakhiserai	—	438
Krishnagar	—	374	Lakhmikole	—	360
Krishnapatnam	—	419	Lakhuwahi	—	557
Krishnagiri	—	422	Lakki	—	528
Krishnagar	—	369	Lakshmana	—	358
Kristipadu	—	406	Lakshmanhati	—	377
Kristopur	—	373	Lalabazar	—	523
Kishtampur	—	367	Lalbagh	—	373, 515, 582
Kuda	—	395	Lalbaria	—	507
Kudhgi	—	408	Lalganj	—	455, 478
Kudih	—	413	Lalgong	—	439
Kukshi	—	561, 562	Lalgudi	—	424
Kukumard	—	525	Lalitpur	—	470, 595, 598
Kulachi	—	528, 529	Lalpur	—	376
Kulasekharapatnam	—	423, 424	Lamta	—	507
Kulia	—	374	Landour	—	463
Kulithali	—	424	Lanj	—	507
Kulupirai	—	588	Larkana	—	539, 540
Kuluvoy	—	419	Lasalgaon	—	395
Kullur	—	419	Lashkar	—	566
Kumarkhali	—	374	Latehar	—	440
Kumaun	—	476	Latur	—	569
Kumbakonam	—	422	Lauia	—	433
Kumbhari	—	513	Ledo	—	521
Kumbla	—	413	Leiah	—	497
Kumurmora	—	367	Lele	—	598
Kumpta	—	382	Lillooah	—	369
Kumta	—	394	Limbdi	—	579
Kunch	—	469	Lingampeta	—	426
Kundara	—	593	Lingsugur	—	568
Kunjah	—	488	Lloyd Barrage Canals	—	531
Kunkavay Bagasar	—	566	Lodhi Kheda	—	511
Kunkavay-Deidi	—	566	Lohajang	—	364, 365
Kunnamkulam	—	560	Lohandiguda	—	554
Kuparihat	—	545	Lohapur	—	359
Kurai	—	510	Lohau	—	589
Kurigram	—	378	Lonavala	—	396
Kurkheda	—	510	Losalgaon	—	396
Kurla	—	383	Lucknow	—	450, 451, 471, 472
Kurnool	—	414, 415	Ludhiana	—	483, 484, 494
Kuria	—	516	Lyallpur	—	495
Kuraseong	—	365	Mabarakpur	—	455
Kurud	—	516	Machhali Shahai	—	470
Kushtia	—	374	Madanapalli	—	410
Kutaihat	—	371	Madanhat	—	375

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# 69 K INDUSTRY YEAR BOOK & DIRECTORY, 1943

Madaripur	366	Makum	520
Madarsha	363	Malabar	417
Madasa	388	Malavalli	583
Madaura	470	Malayur	588
Maddikera	416	Maldah	371
Madha	399	Malegaon	395, 396
Madhabpasha	358	Malerkotla	589
Madhavnagar	567	Malgaon	569
Madhavaram	411	Malkapur	509
Madheri	510	Mallani	572
Madhipura	432, 433	Mallawan	469
Madhoganj	469	Mallikutoli	476
Madhogarh	469	Malout	487
Madho Tanda	477	Malpe	413, 414
Madhuban	433, 434	Malpura	571
Madhubani	434, 435	Malthone	516
Madhupur	443, 444	Malvan Town	397
Madhyakul	370	Malwa	558
Madras City	405	Malwan	397
Madura	416, 417	Manasa	570
Magadi	583	Manbhumi	436
Magarwara	480	Mandal	388
Magra	367	Mandi Babeddin	488
Magura	370	Manjanady	413
Mahadeo	511	Mandawar	460
Mahad Town	395	Mandi	488, 589
Mahajanhat	363	Mandla	513
Mahamandir	572	Mandsau	567, 568
Mahanadi	415	Mandvi	561
Maharajganj	435, 445, 478, 480	Mangalagiri	412
Mahbubnagar	568	Mangaldai	524
Mahesh	367	Mangalore	413
Maheshgunj	374	Mangalhat	443
Maheshpur	370	Manguria	370
Maheswar	558, 570	Maniabandha	564
Mahishkhali	363	Manihanda	371
Mahmudbazar	363	Manipur	520
Mahuio	576	Manipur State	579
Mahuwa	556	Manjanady	413
Maidharpur	546	Mankar	361
Maijpara	371, 379	Manmad	396
Maijpura	376	Mannagudde	413
Mainan	368	Mannarkovili	423
Mainamati	378	Mannargudi	422, 423
Mainaguri	370	Manoh	389
Mainpuri	450, 472	Manora	539
Maitbhanga	375	Manpui	434, 435, 464
Majdia	374	Mansa	373, 586
Majhiara	379	Manshera	529
Majholi	513	Mao	579
Majkara	378	Maratira	546
Majpara	371	Marcigaon	580
Majri	509	Mardan	530
Makhi	493	Margherita	521, 525
Makhla	367	Margiam	359
Makrana	572	Mariahun	470

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Markapur	—	416	Mohammad	—	455
Martandam	—	594	Mohammadabad	—	467
Masulipatam	—	414	Mohammadpur Deomal	—	460
Masura	—	397	Mohamdi	—	471
Matabi	—	375	Mohana	—	462
Matajihat	—	377	Mohanbag	—	371
Matheran	—	395	Mohari	—	508
Mathra	—	373	Mohgaon	507,	511
Mathura	—	376	Mohal	—	399
Mathwada	—	568	Mohanpur	—	360
Matari	—	361	Mohpani	—	512
Matimai	—	364	Mohuad	—	367
Mattanchery	—	559	Mokameh	441,	442
Mau	449,	455	Mollahat	—	380
Maubhandar	—	446	Mondor	—	377
Mau-Aima	—	453	Mongara Badshahpur	—	470
Mauranipore	—	470	Monghyr	437,	438
Mawana Tashil	—	473	Monharpatti	—	379
Mayavaram	—	422	Montgomery	—	496
Mayurbhanj	564,	579	Moradabad	450, 474,	480
Mazalgaon	—	569	Moradnagar	—	473
Medda	—	379	Morena	—	567
Meerghar	—	369	Morhowarh	—	445
Meerut	449, 451, 472,	473	Morreiganj	370,	371
Meherpur	—	374	Morvi	—	581
Mehmedabad	—	393	Mosafikhana	—	479
Mehidpur	—	570	Motavi	—	375
Mehsana	—	545	Motihari	433,	434
Mehsi	—	433	Moureswar	—	360
Mehudawal	—	459	Mowar	—	514
Mehgaon	—	513	Muchukota	—	406
Mekligunj	—	560	Mughalsara	—	459
Melghat	—	506	Mukhalngam	—	547
Mellur	—	416	Muktapur	—	434
Melur	—	588	Muktsar	—	487
Memari	—	361	Mulki	—	414
Merta	—	572	Multan	484,	496
Mhasvad	—	398	Mundi	—	516
Mianwali	495,	496	Mungra Badshahpur	—	470
Midnapur	—	372	Munshiganj	—	364
Miha	—	371	Munari	—	360
Miattunlai	—	588	Murgod	—	389
Mirganj	—	445	Muriganj	—	432
Mirkadam	—	365	Mursan	—	453
Mirpur	—	379	Murshidabad	—	372
Mirpurkhas	—	541	Murtizapur	—	505
Mirpurmathelo	—	541	Murwara	—	513
Mirshahi	—	363	Musidkee	—	499
Mirzapur	373, 450, 451,	473	Mussoorie	—	463
Mithapur	—	553	Muthulayanpatti	—	588
Mitharkot	—	486	Muthupet Union	—	423
Mithitown	—	542	Muttra	451,	475
Moga	—	487	Muzaffargarh	—	497
Mognitooli	—	379	Muzaffarnagar	449, 450,	475
Mogra	—	379	Muzaffarpur	438,	439
Mokakhung	—	526	Mymensingh	—	372
Morgai	—	413	Mysore	581, 584,	585

Do not hanker after service when you can be your own master. HOME INDUSTRIES explains, Re. 1/12. Industry Book Dept., Calcutta.

# 69 M INDUSTRY YEAR BOOK & DIRECTORY, 1943

N W F Province	..	527	Naria	...	366
Nababganj		364	Nakatiaganj	...	433
Nababpuri-Kumirmora	..	367	Narnaund	.....	489
Nabadwip		374	Narsinghdi	..	365
Nabha	585,	589	Narsinghnath	.....	549
Nadbari	..	556	Narsingpuri	.....	564
Nadia	...	374	Narsinghpur	.....	512
Nadiad		393	Narwana	.....	586
Naga Hills	520,	525	Nasarpur	...	538
Nagar	558,	582	Nasik	382, 395,	396
Nagar Parkar	..	542	Nasirabad	392, 400,	558
Nageswarpur		371	Nasirganj		445, 446
Nagina	450, 460,	489	Natagore	..	380
Nagour		572	Nateputa	...	399
Nagpur	..	514	Nathana	...	487
Naharkola	.....	512	Natore	.....	377
Nai Nagla Ahar	..	453	Nauchandi	.....	473
Naihati	..	380	Nanganad	...	582
Nalla		508	Naupara	.....	455
Nami	453,	454	Navlakhi	.....	581
Nainital	475,	476	Navalgund		391, 392
Nainpur	..	513	Navsari	.....	554
Najibabad	..	460	Nawabanki	.....	371
Najhowha	..	433	Nawabganj	371, 457, 468,	480
Nakodar	..	492	Nawabshah	.....	540
Nalbari	..	525	Nawadah	.....	436
Nalchiti		358	Nawalganj	.....	480
Naldanga	...	370	Nawanagar State	.....	585
Nalgonda	..	568	Nawapara		364, 516
Nalhati	359,	360	Nawargaon	.....	510
Naliya		561	Nawashahr	...	492
Nalwadi	..	517	Nayagaon	...	510
Nanded	...	569	Nayagah	.....	564
Nandgaon		395	Nayegaon	.....	511
Nandganj	.....	467	Neala	.....	367
Nandgarh	..	389	Neemuch	.....	558
Nandidroog	..	582	Neerathanallur	...	423
Nandura	...	509	Negapatam	.....	422
Nandurbar	.....	400	Nekmurd	.....	366
Nandyal	.....	415	Nellikuppam	..	408
Nangalband	.....	364	Nellimaila	.....	425
Nankanasahib	..	499	Nellore		418, 419
Nanpara		455	Neora	...	516
Naogaon	377,	396	Neoria	...	477
Narahia	...	434	Neotani	.....	480
Narang	.....	499	Nepal	...	595
Narasapatnam	...	427	Nepanganj	..	455
Narasapur	.....	414	Neri	..	510
Narasaraopet	..	413	Nesbatganj	...	378
Narattampur	.....	371	Netrokona		373, 374
Narayanganj	...	364	Nihalgarh	...	479
Narayanpet	.....	568	Nikhampara	...	374
Narayanpur	.....	380	Nilganj	...	374
Narbatia	.....	433	Nilgiri		419, 564
Naregal		392	Nilgiri State	...	564
Nareputa	..	399	Nilla	.....	362
Nargund	...	392	Nilphamari	.....	378

**CATTLE BREEDING & DAIRYING: A Handbook on keeping cows.**  
 As. 8 Industry Book Dept, Shambazar, Calcutta.

Nimai	—	515	Palong	—	366	
Nimaikandi	—	515	Palsa	—	359	
Nimkhai	—	479	Palwal	—	489	
Nimta	—	380	Palwandi Bhai	—	487	
Nimtala	—	372	Pamban	—	421	
Nipani	—	389	Pamidi	405,	406	
Niphad	—	395	Panagar	—	513	
Nimahi Bajar	—	432	Panchamnagar	—	517	
Nusa	—	437	Panchbibi	—	360	
Nischintapur	—	376	Panchgachia	—	359	
Nizamabad	—	455	Panchmahals	—	391	
Noakhali	—	375	Panchrukhi	—	445	
Noapara	—	363	Pandban-Khanbazar	—	379	
Nokha	—	557	Pandhana	—	515	
Nowgachia	—	432	Pandhai Kaoda	—	518	
Nowgong	—	522	Pandhaipur	—	399	
Nowshera	—	530	Pandhurana	—	511	
Nuh	—	489	Panga	—	378	
Nurpur	487,	493	Pangasi	—	376	
Nyamati	—	358	Pangsa	—	366	
Oel	—	471	Panihati	—	380	
Okara	—	496	Panipat	—	493	
Okha	553,	554	Panna	—	558	
Ongole	—	412	Paniuti	—	407	
Ootacamund	—	419	Panvel Town	—	395	
Oraka	—	496	Panyam	—	415	
Oussa	—	543	Papanasam	—	423	
Osmanabad	—	568	Paradsinga	—	511	
Pabna	—	375	Paramakudi	—	420	
Pachdhar	—	511	Parambur	—	588	
Pachoi	392,	393,	Parang	—	530	
Padavu	—	413	Parasia	—	510	
Padra	—	554	Parasuram	—	375	
Paharpur	—	369	Parbhani	—	568	
Pahasul	—	462	Parbung	—	579	
Paithan	—	568	Parbhara	—	438	
Pakada	—	410	Parlakumedi	—	547	
Pakaur	443,	444	Parli	—	569	
Pakpattan	—	496	Parola	392,	400	
Palacole	—	427	Parsundi	—	359	
Palagolu	—	414	Paritagarh	450,	476	
Palakonda	—	427	Parvatipur	—	426	
Palamu	—	440	Pasur	—	500	
Palampur	—	493	Patan	513,	554,	598
Palana	—	557	Pathankote	—	488	
Palasa	—	547	Patharchapimela	—	360	
Palasbari	—	525	Pathardi	—	389	
Palasgaoh	—	510	Pathra	—	440	
Paldhi	—	392	Pathrail	—	373	
Palej	—	390	Patrala	586,	589	
Palghat	—	417	Patrapur	—	378	
Pali	—	572	Patiraj	—	366	
Palitana	—	586	Patiya	—	363	
Palikonda	425,	427	Patna	440,	441,	564
Pal-lahara	—	563	Patnitola	—	366	
Pallamkotah	—	423	Patnasayeri	—	359	
Palni	—	416	Pattamadai	—	423	

MANURES & THEIR APPLICATION a useful handbook for all amateur gardeners As. 5. Industry Book Dept., Shambazar, Calcutta.

# 69 O INDUSTRY YEAR BOOK & DIRECTORY, 1943

Patties	---	476	Poonamallee	---	409
Pattikonda	---	416	Porbandar	---	587
Patuakhali	357,	358	Porto Novo	---	408
Patur	---	411	Prabhagripatnam	---	418
Paturia	---	366	Prantij	---	388
Pauni	---	508	Pratapganj	---	432
Payagpur	---	455	Pritamabad	---	540
Pedarampuram	---	426	Pioddatur	---	411
Peddapuram	411,	412	Prosadpur	---	377
Peddappur	---	405	Pudupati	---	420
Pendra	---	508	Pudukkottai State	---	588
Pentown	---	395	Puduvayal	---	420
Penugonda	---	427	Pulgaon	517,	518
Peraiyur	---	588	Puliyangudi	---	424
Perambalur	---	424	Pullampet	---	411
Periyakulam	---	416	Pundi	---	547
Peshawar	---	530	Punganur	---	410
Petlad	553,	554	Punjab Agency State	---	589
Pharping	---	598	Punna-Baduria	---	380
Phillour	---	492	Punohana	---	489
Phulpur	---	453	Punot	---	360
Phultala	---	370	Punyagiri	---	427
Phulwari Shareef	---	431	Puran Bazar	---	379
Phuspur	---	455	Puranpur	---	477
Pihar	---	378	Purbasthali	---	361
Pilibhit	450,	451, 477	Purbi Agar	---	476
Pilkhuwa	---	473	Purdinagar	---	452
Pillamangalam	---	588	Puri	543,	548
Pimpalgaon	---	396	Purnea	---	422
Pimpalkhuli	---	518	Purulia	---	437
Pimpralla	---	392	Purwa	---	480
Pind-Dadan Khan	---	491	Pusa	434,	435
Pindrai	---	513	Pusad	---	518
Pinjour	---	586	Puthia	---	377
Piparia	---	512	Puttur	---	413
Pipar	---	572	Quilon	---	593
Pipli	---	548	Qisarganj	---	455
Piplya	---	570	Radhakantapur	---	361
Pirganj	---	366	Radhanagar	---	372
Pir Mahal	---	495	Rae Bareilly	---	477
Pirojpur	---	358	Rafiganj	---	435
Pirpainty	432,	433	Raghunathpur	---	437
Pisanattur	---	422	Rahabari	---	521
Pithapuram	411,	412	Rahatgaon	---	512
Pithoragarh	---	454	Rahatgarh	---	516
Pithoro	---	542	Raichur	568,	569
Plassey	---	374	Raiganj	---	366
Pondli	---	419	Raigai	446,	564
Pollachi	---	410	Raipur	479,	516
Polur	---	407	Rairakhol	563,	564
Pombhurna	---	510	Rairangpur	---	580
Pondicherry	---	419	Raisinghnagar	---	557
Ponnamaravathy	---	588	Rajagram	---	437
Ponani	---	418	Rajahmundry	411,	412
Ponnur	---	412	Rajampet	---	411
Ponskura Thana	---	372	Rajapuri	360,	398, 457
Poona	382,	396	Rajarhat	---	370

"Dental Preparations"—An invaluable guide to manufacturers of tooth powders, pastes, mouth-washes, etc. Re. 1/12, Industry Book Dept., Cal

Rajmangalpur	379	Ravei	--	400
Rajbalhat	---	Rawalpindi	---	497
Rajbail	---	Raxaul	---	433
Rajgailh	510, 552	Rayaghada	---	548
Rajghat	---	Rayavara	---	589
Rajm	--	Razole	---	411
Rajkot	---	Rehli	---	516
Rajmahal	443, 444	Remenda	---	549
Rajavli	---	Renigunta	---	410
Rajnagar	369, 594	Revdanda	--	395
Rajpura	---	Revelganj	---	445
Rajshahi	376, 377	Rewa	558, 590	
Ramakona	510, 511	Rewari	---	489
Ramchandrapur	---	Rewdanda	---	395
Ramchandrapuram	411, 588	Rhimyar Khan	---	552
Rameswaram	---	Risalpur	---	530
Ramganj	---	Rohatowm	---	395
Ramgailh	--	Rohonpur	--	371
Ramgarwa	--	Rohna	--	511
Ramgirl	---	Rohri Town	---	541
Ramjabanpur	---	Rohtak	---	498
Ramkustapur	---	Rojhan	---	486
Ramli	---	Rokhri	--	495
Rammohan	---	Roorki	--	478
Ramnad	--	Rosa	--	478
Ramnagar	---	Roswa	---	359
Ramnigam	--	Royacheti	---	411
Rampur Boalia	---	Royadiug	408, 409	
Rampura	469, 570	Rozi	--	585
Rampurhat	359, 360	Ruiadeva	---	373
Ramtek	---	Ruhia	--	365
Ramu	---	Rupasdi	---	378
Ranaghat	---	Rupe	---	484
Ranchi	442, 443	Rusera	434, 435	
Rande	---	Russelkonda	--	547
Raneeganj	---	Sabalgadh	---	567
Ranesh Kalan	--	Sabong	---	372
Rangamati	---	Sadalgi	---	389
Rangiya	---	Sadar Bazar	---	502
Rangpur	377, 378	Sadaseopet	---	569
Rangunna	---	Sadiquabad	---	552
Ranibennu	391, 392	Sadiya	---	523
Raniganj	435, 442, 479	Sadullapur	---	376
Ranikhet	---	Sadulpur	---	557
Ranipet	--	Safipur	---	480
Ranirbandar	---	Sagarbhanga	---	359
Ranisankail	---	Sahabad	---	569
Raniterai	---	Sahaji	---	545
Ranpui	---	Sahapur	---	516
Rapun	---	Sahapur	---	517
Rasipui	421, 422	Saharanpur	449, 450, 451, 478	
Rasulabad	---	Sahaswan	---	461
Rataul	---	Sahebgunj	358, 439, 443, 444, 479	
Ratnaguni	397, 398	Sahiwal	---	498
Ratnapur	---	Saidapet	---	409
Ratodero	---	Saidpur	378, 467	
Raneh Kalan	---	Sainthia	---	359

COMMON FAULTS & ERRORS: A guide to writers and speakers in English. As. 5. Industry Book Dept., Shambazar, Calcutta.

# 69 Q INDUSTRY YEAR BOOK & DIRECTORY, 1943

Sakaria	360	Saishabari	374
Sakoti	473	Sarna	511
Sakri	435	Sarod	391
Salaya	585	Sarthebari	525
Salbani	372	Sasaram	435, 445
Saldaya	369	Sasni	452
Salem	421	Sason	549
Salkea	369	Satara	398, 399
Salon	477	Satharia	363
Samalkota	411, 412	Satkania	363
Samaria	469	Satkhira	371
Samastipur	434	Satna	590
Sambalpur	543, 549	Satpalsa	359
Sambhal	475	Satrapur	371
Sambhai	572	Sattanur	589
Samdi	361	Sattur	421
Sampla	498	Satyabadi	548
Samrala	495	Saugoi	516, 517
Samudrapur	518	Saundatti Yellamma	390
Sanand	388	Santahai	377
Sanchore	572	Sawantwadi	382, 592
Sandhikona	373	Sehwan Town	527
Sandi	469	Selu	518
Sandila	469	Sembiyam	409
Sandur	591	Sendamangalam	422
Sandwip	375	Seni Union	380
Sangameshwar Town	398	Senvon	579
Sangameswaram	415	Seondha	558
Sangamner	389	Seoni	511
Sangaria	557	Seiajganj	376
Sangla	487, 499	Seram	569
Sangola	399	Serampore	366
Sangrampur	434	Setabganj	366
Sanikatta	394	Settigunta	411
Sankal	512	Sevala	393
Sankarbat	371	Sevalur	588
Sankhapur	546	Shabazpur	365
Sankhera	554	Shahabad	445, 469
Sankheswar	390	Shahapur	371, 380, 517
Sansi	452	Shahdampur	540
Santa Cruz	383	Shahdara	494, 499
Santahar	377	Shahganj	470
Santhal Parganas	443	Shahjadpur	376
Santigaon	360	Shahjahanpur	449, 451, 478
Santipur	374	Shahpura	513
Santiagoachi	359	Shajapur	567
Santri	546	Shahpur	498, 507
Santiodad	391	Shamnagore	370
Saoner	514, 515	Shanora	364
Saprawat	473	Shantinagar	539
Sari Akil	453	Shaspur	358
Saran	444	Shegaon	509
Saraskona	580	Sheikhpura	480
Sardarpur	567, 568	Sheikhupura	499
Sardhana Tashil	473	Sheikpur	438
Sargodha	498	Shekhawati	572
Sarisadi	375	Sheopur	567

Lots of useful formulae for home application are included in  
DOMESTIC RECIPES As 5 Industry Book Dept, Shambazar, Cal.

Tumkur	—	583	Venchur	—	395
Tumpala	—	426	Vengurla	—	397, 398
Tumsai	—	508	Venkatagiri	—	419
Turaiyur	—	424	Vetapalem	—	413
Tuttipar	—	456	Vijayadurg	—	398
Tuticorin	423, 424	424	Villupuram	—	408
Twenty-four Parganas	—	379	Vinjamoor	—	419
Ubauro	—	541	Viramgam	—	388
Udaipur	—	594	Viravanallur	—	423
Udayagiri	—	419	Viridunagar	420, 421	421
Udayarpalayam	—	424	Vishnupuri	—	358
Udipi	—	414	Visnagar	—	554
Udu	—	382	Vizagapatam	—	425
Udumalpet	—	410	Vizianagram	—	426
Udhani	—	461	Vonipenta	—	411
Ujjain	—	567	Vidhachalam	—	408
Ukhurul	—	579	Vuttaravilli	—	426
Ullal	—	413	Wadakkanchai	—	560
Ullapara	—	376	Wadhona	—	510
Uluberia	368, 369	369	Wagadari	—	551
Ulundupet	—	407	Wagratown	—	391
Ulvai	—	394	Wah	—	485
Umalia	513, 590	590	Wai	—	518
Umerkot	—	542	Wagon	—	517
Umer	—	514	Walajabad	—	410
Unao	—	480	Wallagah	—	407
Upleta	—	565	Walwa	—	398
Upper Sind Frontier District	—	542	Wandiwash	—	407
Uppinangady	—	413	Wankaner	—	594
Uran	—	395	Wanparti	—	568
Uravakonda	—	406	Warangal	—	568
Uska	—	459	Waraseoni	—	507
Utai	—	516	Warbartan	—	499
Utraulla	—	468	Wardha	517, 518	518
Uttarpaisa	—	367	Warora	—	510
Uttaramerui	—	409	Wazirabad	—	488
Uzupur	357, 358	358	Wellington	—	419
Vadolibhoi	—	396	Woollapalem	—	419
Vagankulam	—	423	Woseleyganj	435, 436	436
Vagla	—	391	Wun	—	518
Vairag	—	399	Yadga	—	569
Vaitikoi	—	588	Yadiki	—	405
Vajrakalui	—	406	Yamakanmardi	—	390
Valavanui	—	407	Yamnur	—	392
Valayapatti	—	588	Yaru	—	486
Vander	—	396	Yawal	392, 400	400
Vanappur	—	588	Yellamanchilli	—	427
Vanpet	—	588	Yemmiganui	—	409
Vaydi-Bujiag	—	391	Yeola	382, 395, 396	396
Vedaranyam	—	423	Yeotmal	—	518
Veldurthi	—	416	Yusufpur	—	467
Vellore	—	407	Zafarabad	—	470
Vempalli	—	411	Zaidpur	—	457
Wellington	—	419	Zamania	—	467
			Zira	—	487
			Zorwargunj	—	363

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annas in addition to the ordinary postage. Unregistered letters and postcards may be transmitted by post for express delivery to any place not more than five miles distant from a Government Telegraph Office. Express delivery letters and postcards must be conspicuously marked on the address side with the words "Express Delivery." Postal articles marked "Express Delivery" which are addressed to a place more than five miles distant from a Government Telegraph Office or on which the postage and the Express Delivery fee have not been fully prepaid will be treated like ordinary postal articles.

#### **BUSINESS REPLY CARDS & ENVELOPES.**

"Business Reply Cards" and "Business Reply Envelopes" are transmitted by post without prepayment of postage, and the postage thereon is collected in cash from the address on delivery. The fee for permission to use business reply cards and envelopes is Rs 10 for one year.

Business Reply Cards and Envelopes must be furnished by the user, and must bear on the address side (a) the printed name and address of the person or concern to whom they are to be delivered, (b) the permit number, (c) the name of the post office issuing the permit, (d) the words "Business Reply Envelope" or "Business Reply Card," (e) the inscription "No postage stamp necessary if posted in India" and (f) the words "Postage will be paid by address." Sufficient space must be left for post marking at the top of the card or envelopes.

When Business Reply Cards and Envelopes are returned to the office of origin, they will be delivered to the person for whom they are intended on payment of the postage chargeable thereon.

#### **COMPLAINTS AGAINST POST OFFICES.**

Letters containing complaint against the Post Office should be properly stamped. In all cases of loss of the contents of an article, the cover or wrapper should accompany the complaint and a full description of the missing contents should be given, if the missing contents are currency notes, the serial letters and numbers and general numbers of the notes should be given.

Complaints regarding the wrong payment or non-payment of a money order cannot be attended to unless preferred within twelve months of the date of the money order.

Whenever the sender or addressee of a value payment postal article makes a complaint regarding the delivery of, or payment for, a value payable postal article, he is required to furnish full particulars regarding each value-payable article to which the complaint refers and to pay a fee of one anna in respect of each article. No complaint will be attended to unless made within twelve months of the date of posting of the value payable article. This fee will be refunded in cases where the complaint is found to be well-grounded.

#### **FOREIGN PARCELS.**

Each parcel despatched outside India should be accompanied, by a Customs declaration in the prescribed form, which is obtainable free at every post office.

#### **BOOK PACKETS.**

The dimensions of a book packet, which may be of any shape, must not exceed two feet in length by one foot in width and one foot in depth. When, however, the packet is in the form of a roll, the length

**THE RETAIL TRADE**—an exposition of Methods that build up Retail Trade. Price Re. 1/4. Industry Book Dept., Shambazar, Calcutta

must not exceed thirty inches, provided that, if the length exceeds two feet, the diameter must not exceed four inches.

A book packet must be posted without a cover or in an unfastened envelope, or in a cover which can be easily removed for the purpose of examination without breaking any seal or tearing any paper or separating any adhering surfaces.

### INDIAN POSTAL ORDERS.

Indian Postal Orders are available in the denominations of 8 annas, 1 rupee, 5 rupees and 10 rupees, and the commission chargeable in respect of each order will be 1 anna. They are sold and paid by all Head and Sub-post offices in India and Burma.

To make up broken amounts, unused postage stamps not exceeding three in number may be affixed on the face of Indian Postal Orders of all denominations except Rs. 10, in the space reserved for the purpose, provided that the total amount payable on the order shall not exceed Rs. 10 and provided also that a fraction of an anna shall not be included.

If an Indian Postal Order is presented for payment after three months from the last day of the month of issue, a second commission of one anna will be charged. Indian Postal Orders presented for payment more than six months after the last day of the month of issue will not be paid.

The purchaser of an Indian Postal Order can obtain repayment of its value (but not the commission), on presenting the Order and the counterfoil at the post office from which the Order was purchased.

### INDIAN POSTAL RATES.

#### POST CARD.

				Rs.	As	P
Each Post Card, Single	—	—	—	0	0	9
" Reply Post Card	—	—	—	0	1	6

Single and Reply Post Card of private manufacture must be prepaid. Unpaid Post Cards are forwarded to the Dead Letter Office to be destroyed forthwith. In cases of insufficient postage, bearing fee amounting to double the value of deficiency is charged.

#### LETTERS.

				Rs.	As	P
For a weight not exceeding one tola	—	—	—	0	1	6
For every additional 1 tola or part of that weight	—	—	—	0	1	0
Embossed Envelopes	—	—	—	0	1	6
Embossed Registration Envelopes	—	—	—	—	—	—
7½ × 4½ inches size (inclusive of postage stamp)	—	—	—	0	5	3
9 × 6½ inches size (exclusive of postage stamp)	—	—	—	0	4	0
1½ × 5½ inches size (exclusive of postage stamp)	—	—	—	0	4	3
9 × 6½ inches size (exclusive of postage stamp)	—	—	—	0	4	0

Bearing charges on letters double the prepaid rate of deficiency.

#### BOOK AND PATTERN PACKETS.

First 5 tolas or part of that weight	—	—	—	0	0	9
For every additional 2½ tolas or part of that weight	—	—	—	0	0	3

#### REGISTERED NEWSPAPERS

Not exceeding 10 tolas in weight	—	—	—	0	0	3
Exceeding 10 tolas, but not exceeding 20 tolas in weight	—	—	—	0	0	6
Every additional 20 tolas in weight or part of that weight	—	—	—	0	0	6

**THE RETAIL TRADE**—an exposition of Methods that build up Retail Trade. Price Re. 1/4. Industry Book Dept., Shambazar, Calcutta.

For a packet containing more than one copy of a registered newspaper of the same issue—Half anna for the first ten tolas or less, and quarter anna for every additional five tolas or fraction thereof, provided that such packet shall be given to a recognised agent at the post office, and addressed to any addressee's residence.

#### PARCELS.

	Rs	As	P
Not exceeding 40 tolas	0	6	0
For every additional 40 tolas or fraction thereof	0	4	0
Parcels over 440 tolas must be registered			

#### REGISTRATION FEE.

For each letter, post card, book or pattern packet or parcel (in addition to the usual Postal charges)	0	3	0
Acknowledgment Fee for each article registered	0	1	0

#### INSURANCE FEE.

In addition to postage and registration fee the following fee is charged for insurance

When the value insured does not exceed Rs 100	0	3	0
When the value insured exceeds Rs 100 but does not exceed Rs 150	0	4	0
When the value insured exceeds Rs 150 but does not exceed Rs 200	0	5	0
For every additional Rs 100 or fraction thereof over Rs 200 and up to Rs 1,000	0	2	0
For every additional Rs 100 or fraction thereof over Rs 1,000	0	1	0

#### VALUE-PAYABLE FEES.

These fees are calculated on the amount specified for remittance to the Sender at ordinary Money Order rates and are collected from the addressee at destination. The limit of a Value-Paying is Rs 1,000

#### Schedule of Fees.

	Rs	As	P
Amount specified for remittance to sender—			
not exceeding Rs 10	0	2	0
for every additional Rs 10 or part thereof	0	2	0
The sender of a value-payable registered parcel or registered letter can also insure it under the rules relating to Insurance. The value declared for insurance need correspond with the amount specified by the sender for remittance to himself			

#### ORDINARY MONEY ORDER FEES.

	Rs	As	P
On any sum not exceeding Rs 10	0	2	0
For every additional Rs 10 or part thereof	0	2	0

#### TELEGRAPHIC MONEY ORDER FEES.

The amount for which a single Telegraphic Money Order may be issued must not exceed Rs 600, and must not include fractions of a rupee

The fee for the issue of a T M O is the same as the fees for Ordinary Money Orders plus a telegraph charge calculated at the rates for inland telegrams for the actual number of words used in the telegram advising the remittance, according as the telegram is to be sent as an "Express" or as an "Ordinary" message (see page 77)

For practical methods of manufacturing boot polish, metal polish, etc. read PROSPECTIVE INDUSTRIES. Re 1/12. Industry Book Dept., Cal.

**POSTAL RATES FOR ADEN, CEYLON, NEPAL & PORTUGUESE INDIA.**

Postal Rates for Aden, Ceylon, Nepal and Portuguese India are same as Indian rates.

**FOREIGN POSTAL RATES.**

(Except Ceylon, Aden, Nepal and Portuguese India)

**POST-CARDS.**

For all countries of the world served by the Foreign Post except Aden, Ceylon, Nepal and Portuguese India—

					Rs	As	P
Single	—	—	—	—	0	2	0
Reply	—	—	—	—	0	4	0

Postcards for participating countries are sent by air as the normal means of transmission. A letter or postcard if posted unpaid or insufficiently paid is charged on delivery with double the deficiency.

**LETTERS.**

(a) For countries participating in the Empire Air Mail Scheme, i.e., Great Britain and Northern Ireland, Egypt (including the Sudan), Palestine, Australia, New Zealand, Trans-Jordan and the following British Possessions and Protectorates —

Bechuanaland Protectorate, Brunei, Canada, Eire (Ireland), Kalantan, Kenya, Uganda and Tanganyika Territory, Mauritius, Newfoundland, North Borneo, Nyasaland Protectorate, Perlis, Rhodesia (Northern and Southern), Seychelles, South West Africa, Tiengganu, Union of South Africa (including Basutoland and Swaziland), Zanzibar —

					Rs	As	P
For every ounce or fraction thereof	—	—	—	—	0	3	6
(b) For other British Possessions and Protectorates except Aden, Ceylon, Nepal, and Portuguese India—							
For a weight not exceeding one ounce	—	—	—	—	0	3	6
For every additional ounce or fraction thereof	—	—	—	—	0	2	0

(c) For all other countries of the world served by the Foreign Post—

For a weight not over 1 oz	—	—	—	—	0	3	6
For very additional oz or fraction thereof	—	—	—	—	0	2	0

Note—Letters for these countries are normally sent by air. Insufficient postage is charged on delivery with double the deficiency.

**PRINTED PAPERS.**

					Rs	As	P
For every 2 oz or fraction thereof	—	—	—	—	0	0	9

**BUSINESS PAPERS.**

For a weight not exceeding 10 oz	—	—	—	—	0	3	6
For every additional 2 oz or fraction thereof	—	—	—	—	0	0	9

**SAMPLE PACKETS.**

For a weight not exceeding 4 oz	—	—	—	—	0	1	6
For every additional 2 oz or fraction thereof	—	—	—	—	0	0	9

**REGISTRATION.**

For each registered letter, post-card or packet registered (in stamps)	—	—	—	—	0	3	0
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For practical methods of manufacturing boot polish, metal polish, etc. read PROSPECTIVE INDUSTRIES. Re. 1/12. Industry Book Dept., Cal

**ACKNOWLEDGMENT FEE.**

	Rs.	As	P.
For each registered letter, post card or packet in addition to registration fee (in stamps)	0	3	0

**PARCELS.**

For Great Britain and Northern Ireland		Via Gibraltar	Overland
		Rs As P.	Rs As P
Not over	3 lbs	1 8 0	1 13 6
Exceeding	3 lbs but not over 7 lbs	2 12 0	3 1 6
"	7 lbs " " " 11 lbs	3 15 0	4 2 6
"	11 lbs " " " 20 lbs	6 3 0	7 3 0

Parcels exceeding 11 lbs, but not exceeding 50 lbs, superscribed "To be despatched through the medium of the P & O S N C" are forwarded from Bombay through the medium of P & O S N Co at As 12 per pound. The parcels are delivered free of charge within a radius of one mile from the company's head office in London.

**INSURANCE RATES.**

In addition to postage and registration fee the following fee is charged for insurance —

For the United Kingdom and British Possessions —		Rs.	As	P
When the value insured does not exceed £12	..	0	4	6
For every additional £12 or fraction thereof	..	0	4	6
For Mauritius, Zanzibar, the Seychelles and British Somaliland —				
When the value does not exceed Rs 180		0	4	6
For every additional Rs 180 or fraction thereof		0	4	6

**VALUE PAYABLE PARCELS.**

In the case of value-payable parcels for Great Britain and Northern Ireland, and the Irish Free State

Amount specified for remittance to the sender—

not exceeding Rs 10	0 3 0
for every additional Rs 10 or part thereof	0 3 3

A posting fee of 2 annas must also be prepaid

**BRITISH POSTAL ORDERS**

(1) British Postal Orders for fixed sums, from 6d to £1-1-0 are available for sale to the public at all the Head and Sub Post Offices in place where a large European community exists or where there is a demand for the orders. Other Post Offices, to which application may be made for British Postal Orders, will obtain them and deliver them to the purchasers. Poundage 1 anna to 2 annas.

(2) Until further notice, the issue of British postal orders to any single individual in one day is limited to £20.

**FOREIGN PURCHASE MONEY ORDERS.**

The rates of commission on rupee money orders drawn on the foreign countries as specified in the Postal Guide are —

	Rs	As	P
On any sum not exceeding Rs 10	0	3	0
For every additional Rs 10 or part thereof	0	3	0

**TELEGRAPHIC MONEY ORDERS**

Telegraphic Money Orders expressed in Sterling may be exchanged with the United Kingdom. The amount of a single Indo-United Kingdom Telegraphic M O may not exceed £40 or include any fraction of a penny. The fee of T M O is Money Order commission plus cost.

**BENGAL SWEETS**—a reliable guide for preparing Sandesh, Rasgulla, Mithai, Sops, etc at home. Re. 1/12 Industry Book Dept, Calcutta.

of telegraphic advice according to the rate for private message to the United Kingdom

**STERLING MONEY ORDERS**

			Rs.	As	P
For a Sterling Money Order on any sum not exceeding £ 1	—	—	0	4	0
„ £ 1 but not exceeding £ 2	—	—	0	7	0
„ £ 2 but not exceeding £ 3	—	—	0	10	0
„ £ 3 but not exceeding £ 4	—	—	0	13	0
„ £ 4 but not exceeding £ 5	—	—	1	0	0
„ £ 5	—	—	1	0	0

for each complete sum of £ 5 and Re 1 for the remaining provided that if the remainder does not exceed £ 1, the charges for it shall be As 4, if it does not exceed £ 2, the charge for it shall be As 7, if it does not exceed £ 3, the charge for it shall be As 10, and if it does and exceed £ 4, the charge for it shall As 13

**TELEGRAPHIC INFORMATION.**

**INLAND TELEGRAMS.**

There are two classes of Telegrams—Express and Ordinary—and the following are the rates of charge between any two offices in India

	Unit No of words	Unit Rate Express	Unit Rate Ordinary	Each additional words	Express	Ordinary
		Rs As	Rs As	Rs As	Rs As	Rs As
For delivery in India	8	1 8	0 12	0 2	0 1	0 1
„ „ in Ceylon	12	2 0	1 0	0 3	0 2	0 2

A surcharge has been levied at the rate of one anna on every ordinary telegram and two annas on every express telegram addressed to places in India, Ceylon, Afghanistan and Lhasa (Tibet) The surcharge applies to greetings telegrams also

Address charges extra.

**Multiple Address Telegrams**—A telegram will be delivered at two or more addresses, in the same free delivery area on prepayment of the ordinary telegram charges for the total number of words in the addresses and text in addition to a charge of 4 annas for every copy beyond the first. If the message contains more than 100 chargeable words a copying fee of 4 annas per 100 words, plus 4 annas for the telegram addressed to more than one station, a surcharge of two annas or one anna according to the class of the telegram is levied on each address in the telegram

**FOREIGN TELEGRAMS.**

	Rs	As	P
From any office in India to countries of Europe except Russia and Turkey, per word including address via Indo or Eastern	—	—	1 4 0

Deferred Foreign private telegrams in plain language are accepted at half rates

**INLAND PRESS TELEGRAMS**

Express—For first 40 words	—	—	1 0 0
Each additional 5 words	—	—	0 2 0
Ordinary—For first 40 words	—	—	0 8 0
Each additional 5 words	—	—	0 1 0

**BENGAL SWEETS**—a reliable guide for preparing Sandesh, Rashgolla, Mithai, Sops, etc at home. Re. 1/12. Industry Book Dept., Calcutta.



A surcharge at the rate of one anna for every ordinary telegram and 2 annas on every express telegram

The copying fee should be charged at the rate of 5 annas for the first 100 words, and one anna for each additional 20 words in respect of every address after the first

### FOREIGN PRESS TELEGRAMS.

	Rs	As	P.
From any office in India or United Kingdom via Indo or Eastern, per word	0	4	0

### CEYLON PRESS TELEGRAMS

From Station in India—			
First 32 words	1	0	0
Each additional 4 words	0	2	0
The address is allowed free			

The above rates are subject to surcharge as above

### FOREIGN TELEGRAMS

	Ordinary	Code *	Deferred	For 25 words	Daily Letters. Each additional word
	Rs As P	Rs As P	Rs As P	Rs As P	Rs As P
Great Britain and N Ireland	0 14 0	0 8 6	0 7 0	7 13 0	0 5 0
Kenya	1 8 0	0 14 6	0 12 0	12 8 0	0 8 0
Union of South Africa	1 15 0	1 3 0	0 15 6	16 6 6	0 10 6
U. S A	1 11 0	1 0 6	0 13 6	14 1 0	0 9 0
Canada	2 3 0	1 5 0	1 1 6	18 12 0	0 12 0
Australia	2 4 0	1 6 0	1 2 0	18 12 0	0 12 0
Irish Free State	1 0 0	0 10 0	0 8 0	8 9 6	0 5 6

\* Minimum charge as for 5 words

Urgent telegrams are accepted at double the ordinary rate

### CHARGES FOR RADIO TELEGRAMS.

Charges for Radio-telegrams from telegraph offices in India for transmission to ships at sea through the Coast stations in India

	Per Word	Ordinary	Code
	Rs As	Rs As	Rs As
(1) All Government or Private Radio-telegrams excepting those mentioned in (2) and (3) below	0 13	0	8
(2) Radio telegrams to His Britannic Majesty's Ships of War or Ships of the Royal Indian Navy	0 8	0	5
(3) Radio telegrams to Spanish or Swedish Ships	0 12	0	7½

### TELEGRAMS BY AIR MAIL

Inland telegrams are accepted at all Government telegraph Offices in India for transmission by telegraph to Karachi to be posted thence as air mail letters for Persia, Iraq, Palestine, Egypt, Great Britain and other countries in Europe, U S A and Canada. The charges payable on such telegrams are calculated at the Indian inland rates (according to the class Express or Ordinary at sender's choice) plus the air mail fee in addition to the usual letter postage for air mail services. If a message is to be registered before being posted, the sender will also have to pay the registration charges

**DISINFECTANTS & ANTISEPTICS** gives full details of preparing all sorts of insecticides & medicated cottons Re 1/12. Industry, Calcutta.

# TELEPHONE SECTION.

## TELEPHONE RATES.

### Connections to Government Telephone Exchange.

(a) For all exchanges excepting those specified in (b) below.—

Rates payable in advance

Monthly.

Radial distance from Exchange	With discount.	Without discount	Annual.
	Rs.	Rs	Rs
Within one mile	— 16	18	169
Within two miles	— 17	19	180
Within three miles	— 18	20	192

(b) For the following Exchanges —

Delhi, Simla, Mashobra, Rawalpindi, Lahore, Lahore Cantonment, Amritsar, Peshawar, Ghaziabad, Bombay (Government), Poona, Ahmedabad (Government), Drigh Road, Quetta, Nagpur, Cawnpore, Lucknow, Patna, Dinapore, Gulzarbagh, Loyabad, Sinidih, Jharia, Calcutta—Regent, Storeyard, Barrackpore, Calcutta West.

Rates payable in advance

Monthly

Radial distance from Exchange	With discount	Without discount	Annual
	Rs	Rs	Rs
Within three miles	— 18	20	192

(c) The following special rate, provided the connection is within half a mile of the exchange, is applicable only to exchanges which are not connected to the Telephone Trunk System

Rates payable in advance

Monthly

Radial distance from Exchange	With discount	Without discount	Annual
	Rs	Rs	Rs
Within half a mile	— 15	17	156

(d) For lines in excess of three miles special rates based on the capital cost will ordinarily be quoted Surcharge on telephone rentals 33½ per cent

## EXTENSION TELEPHONES.

Extensions can be given from the telephone with extra internal wiring and switches with bells and plugs at additional rates Particulars can be ascertained from the Divisional Engineer, Telegraphs, or from the local Government Telephone Exchange

## TRUNK TELEPHONES

Most of the important places in India are now connected to the Trunk Telephone System Charges for Trunk Calls are very moderate. For particulars of rates and other details consult any Government telephone directory or enquire from the local Government telephone exchange

NOTE—Half rate trunk calls are allowed daily between the hours of 8 P M and 8 A M and on Sundays

A surcharge equal to 20 per cent of the charges is also payable

## FOREIGN TELEPHONE SERVICE.

Telephone communication is available between India and Ceylon, and between India on the one hand and Great Britain, Australia, S Africa, Canada, U. S A etc, on the other. Calls made are charged at the following rates —

**DISINFECTANTS & ANTISEPTICS** gives full details of preparing all sorts of insecticides & medicated cottons. Re. 1/12. Industry, Calcutta.

	First three minutes	Charge for Each addl minute	Report
	Rs As P	Rs As P	Rs As P
Great Britain	40 0 0	13 5 0	5 5 0
Canada, U S A	38 0 0	29 5 0	9 5 0
S Africa, Austialia	75 0 0	25 0 0	10 11 0

**POST OFFICE SAVINGS BANK.**

The smallest sum of money that can be deposited or withdrawn at any time is Re 1/- A depositor may withdraw money only once a week Interest on deposit at the rate of  $1\frac{1}{2}$  per cent

**AIR MAIL SERVICES.****GENERAL RULES**

**Air Mail Stamps, Post Cards and Envelopes**—All mail stamps of the denominations of 3, 6 and 12 annas, Air mail envelopes (commercial size), with blue air mail label printed on them and air mail post cards for foreign correspondence with blue air mail label printed thereon are available at all important post offices for sale to the public at the face value

**AIR MAIL PARCELS.**

All mail parcels for despatch by air from Karachi are accepted at such post offices in India as accept foreign parcels for despatch for any post office in Great Britain and Northern Ireland Air mail parcels for any other country or inland parcels for India are not accepted

The limits of weight and other conditions applicable to parcels by the ordinary route will apply to air mail parcels as well, except that the charges shall be on a half pound scale at the rates noted below which include the postage and air fee —

	Rs As P
For the first half pound	3 2 0
For every additional half pound or fraction thereof upto a weight not exceeding 11 lbs	1 14 0
For every additional half pound or fraction thereof above 11 lbs upto a maximum of 20 lbs	1 8 0

Each parcel must bear on the left-hand top corner of the address side a blue air mail label obtainable free of charge at any post office and must be clearly and conspicuously superscribed in ink above or below the blue with the words "Karachi-Croydon"

**STERLING MONEY ORDERS BY AIR MAIL**

Air mail money orders for transmission by the Indian internal air services are accepted at such Indian post offices as accept ordinary inland money orders The limits of value and other conditions relating to ordinary inland money orders apply in the case of the Air mail money orders The remitter should write the words "By Air Mail" across the money order form and pay, in addition to the usual money order commission, the Air Mail fee of one anna for each money order

Ordinary sterling money orders can be sent by air mail to Iraq, Egypt and Great Britain and Northern Ireland The original money orders, in the case of countries in the West, will, like those despatched by the sea route, have to be sent to Bombay The remitter should write the words "By Air Mail" across the money order form, and pay, in addition to the usual money order commission the air mail fee of annas 2 for each money order irrespective of its amount

**INDIAN INTERNAL AIR SERVICES.**

The following internal air mail services are operated in connection with the Imperial Airways' air mail service

**"Dental Preparations"**—An invaluable guide to manufacturers of tooth powders, pastes, mouth-washes, etc. Re 1/12. Industry Book Dept., Cal.

(1) Indian Trans-Continental Airways, from Calcutta, Allahabad, Cawnpore, Delhi, Jodhpur to Karachi.

(2) Tata Sons, Ltd.—From Madras via Bellary, Bombay (or Poona), Ahmedabad to Karachi.

(3) Indian National Airways—Services between Lahore and Karachi via Sukkur and Multan.

(4) Air Services of India Ltd.—Regular services between Bombay and Kolhapur via Poona on Mondays, Thursdays and Saturdays.

(5) Bombay-Delhi Air-Mail Service via Indore, Bhopal and Gwalior. Leaves Delhi on Tuesdays and Saturdays and starts from Bombay on Mondays and Fridays.

(6) Colombo-Karachi Air-Mail Service Arrivals in Bombay on Sundays and Thursdays, leaves Bombay on Thursdays and Sundays.

(7) Bombay-Trichinopoly Air-Mail Service.

**Inland Articles**—Inland articles, both registered and unregistered (but not insured articles or parcels), are accepted for transmission by air between any air station on Indian internal air services mentioned above, Gwadar and Bahrain subject to the existing conditions applicable to inland articles. No superscription regarding the route is necessary on inland articles. A blue air mail label (obtainable free of charge at the post office) should be affixed to the article on the left-hand top corner of the address side.

### FOREIGN SERVICES FROM INDIA.

The most expeditious route for each country is given below —

Air Route	Country of Destination
India-Spain	Malta, Switzerland, Spain, Portugal
India-England (Croydon)	Great Britain and Northern Ireland, Irish Free State
India-Uganda	Uganda
India-Kenya	Kenya and Zanzibar
	Tanganyika Territory
India-Rhodesia	Belgian Congo, Rhodesia and Portuguese East Africa
India-South Africa	Union of S Africa
India-Australia	Australia and New Zealand
Perth-Adelaide	From Dhanushadi

### INDIA-AMERICA AIR LINK.

All mails for the United States of America and Canada are at present sent by the air-cum-sea route via Durban and the United Kingdom. Arrangements have been made, with effect from August 15, 1942, to send such mails throughout by air by utilising the Pan-American Airways' Services operating between West Africa and the U S A. A blue air mail label should be affixed on the top left-hand corner of all air mail correspondence sent to the U S A and Canada. The air mail fee and superscription required are as follows.

Name of Country	Superscription	Air mail Fee	
		Rate per ½ oz on letters and packets, in addition of ordinary postage	Rate per postcard, inclusive of ordinary postage
		Rs. As	Rs As
U S A	India-Lagos-U S A	2 8	1 0
Canada	India-Lagos-Canada	2 0	0 11

The present air-cum-sea route via Durban will also be available for air mails to U S A and Canada at the existing rates of postage.

**PRACTICAL METAL CASTING**—A comprehensive treatise on the art of founding with practical details. Rs. 2/8. Industry Book Dept., Calcutta.

**AIR MAIL FEES.**

		Per half ounce in addition to Usual postage		
		Rs	As	P
<b>Africa</b>	<b>SCHEDULE I</b>			
Belgian Congo, Portuguese East & West Africa	Via Durban	1	4	0
<b>America:</b>				
Argentina, Bolivia, Chili, Paraguay, Uruguay		4	2	0
Brazil		3	10	0
British Guiana, Dutch Guiana, French Guiana, Equador, Columbia, Peru		2	0	0
Central America via Costa Rica, Cuba, Domi- nican Republic, El Salvador, Guatemala, Hayti, Honduras (Brit), Honduras Republic, Mexico, Nicaragua		1	9	0
Panama (Republic & Canal Zone) Venezuela	Via Durban	1	14	0
West Indies viz, Bahamas, Jamaica, Leeward Islands (Antigua), Trinidad (including Windard Islands & Barbados), Virgin Is- lands, and Porto Rico		1	9	0
	<b>SCHEDULE II</b>			
		per tola		
		Rs	As	P
India.—All Inland Air ports		0	1	3
Ceylon:—Postcard		0	1	3
For a letter not exceeding one tola		0	2	6

**SCHEDULE III.****Flat Rate (Postage and Air Fee Combined).**

Letters 8 Annas for letter not exceeding half an ounce in weight  
Postcards Annas 4 for each single postcard

- Africa**—Anglo Egyptian Sudan, Bechuanaland, Egypt, Kenya, Mauri-  
tius, Nyasaland, Rhodesia (Northern & Southern), Seychelles,  
Tanganyika, Uganda, Union of South Africa, Zanzibar  
**America**—Canada (via Durban only)  
**Asia**—Burnei, North Borneo, Palestine, Perlis, Transjordan, Trengganu,  
Iraq and Kuwait  
**Europe**—Great Britain, Northern Ireland, Irish Free State (EIRE),  
(via Durban only)  
**Oceania**—Australia, British Solomon Island, Ellice Island, Fiji, Gilbert  
Island, Nauru, New Guinea or Papua, New Hebrides, New  
Zealand, Norfolk Island, Tonga, Western Samoa

**AIRGRAPH SERVICE.**

The Airgraph Service which has been operating in the outward direction from India to only the United Kingdom, has been extended to Eire and Canada

The postage for an airgraph to U K, Canada or Eire sent by numbers of the public other than members of His Majesty's Forces has been reduced from fourteen annas to eight annas with effect from March 2, 1942

In order to avoid complaints of the contents of airgraphs received in India being spoiled by the gum with which airgraph envelopes are pasted, it has provisionally been decided by the Post Office not to paste down these envelopes but to merely insert the flaps inside the covers as in the case of printed papers

Modern foundry shop practice is described in **PRACTICAL METAL CASTING.** Rs. 2/8. Industry Book Dept., Shambazar, Calcutta.

# RAILWAY INFORMATION

**R**AILWAY development in India dates back to 1853 when the Great Indian Peninsular Railway constructed their first line extending from Bombay to Kalyan. The following year the railway between Calcutta and Pandua was opened. Since then the mileage of Indian railways has recorded steady increases till this now stands at about 43 118 miles, of which 31,783 miles are under State management. In 1940-41, the total mileage of the railways was 41,952.

One of the special features of the Indian Railways system is the diversity of conditions that prevails in the relation of the State to the various lines in respect of ownership and control. Of the important lines situated in British India or in which the Government of India is interested, five, e.g., the North Western, Bengal and Assam, East Indian (with which has been amalgamated the Oudh and Rohilkhand Railway from the 1st July 1935), Great Indian Peninsula and Burma Railways, are owned and worked by the State, five (the Bombay, Baroda and Central India, Madras and Southern Mahratta, Assam Bengal, Bengal Nagpur, and South Indian) are owned by the State but worked on its behalf by Companies enjoying a guarantee of interest from the Government, two important lines (the Bengal and North Western and Rohilkhand and Kumaon) and many of less importance are the property of private companies, some being worked by the owning companies, and some by the State or by the companies that work State-owned systems. Several minor lines are the property of District Boards and enjoy a guarantee of interest granted by such Boards.

It has been notified by the Railway Board that railway systems now known as the Assam-Bengal Railway and the Eastern Bengal Railway will be combined with effect from the 1st January 1942 and known as the Bengal and Assam Railway (B & A Ry).

Mention may be made to the provision made in the Budget for 1941-42, of Rs 2 crores for the purchase of the Assam Bengal Railway and Rs 2½ crores for the purchase of the Bombay, Baroda and Central India Railway. Notice had also been given to purchase the Tapi Valley Railway (156 miles) at the end of March 1942 at an estimated cost of Rs 1½ crores, but the payment being due only in 1942-43, has not been provided for in this budget.

**Railway Finance.**—Under the separation convention which came into effect since 1925-26, the Railways in India are liable to make a contribution to general revenues which amounts on the average to a net payment of Rs 6 crores a year. The first payment to Government consists of the 1 per cent on the capital at charge of commercial lines less the loss incurred on working strategic lines. The Convention provides that the next three crores should go to the railway reserve and that thereafter only, two-thirds of the surplus should go to the railway reserve. The remaining third goes to general revenues. Yet there is another provision of the Convention. This stipulates that there shall be added to the 1 per cent contribution one-fifth of the surplus profits remaining after payment of that contribution. The fixed

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Modern foundry shop practice is described in **PRACTICAL METAL CASTING**. Rs. 2/8. Industry Book Dept., Shambazar, Calcutta.

contribution is based on the capital at charge in the penultimate year and this one-fifth is calculated likewise. What that means is that this sum is only put into the railway reserve to be taken out again in the year after next

Of the fifteen years that have elapsed since the separation of railway revenues from the general revenues of India, the first six were prosperous years. After paying interest charges, and putting by a net sum of Rs 12 crores in the Depreciation Fund after meeting such of the expenditure on renewals and replacements as is chargeable under rules, to the Fund, the total surpluses amounted to Rs 52½ crores. During the next six years, the position was very different. There were successive deficits of Rs 5.19, Rs 9.20, Rs 10.23, Rs 7.96 crores, Rs 5.06 crores and Rs 3.99 crores during the years ending 1935-36. During the next years ending 1940-41 there were surpluses of Rs 121 lakhs, Rs 276 lakhs, Rs 433 lakhs, Rs 137 lakhs and Rs 14.59 lakhs respectively. During the period of prosperity, Railways met all their liabilities, and even in 1930-31, the first year of depression, they contributed 5½ crores to general revenues. This contribution was, however, met from accumulations in the Railways Reserve Fund. In all, during this period, after meeting all their liabilities, Railways contributed 42 crores to general revenues. After 1930-31, Railways have made no contribution to general revenues, and have only been able to meet working expenses and interest charges by borrowings from the depreciation reserve fund and 1940-41 was the first year after a period of eleven years in which the Railways had earned a profit after paying full interest charges and the entire amount of contribution for the year due to general revenues. The increase in earnings was mainly due to rise in traffic brought about by the war and enhancement of rates and fares with effect from March 1, 1940. The surplus for the year amounted to nearly Rs 18½ crores which is the highest in any year up to 1940-41 in the history of Indian railways. The following year however saw a further rise of surplus by over Rs 28 crores. Of the surplus in 1940-41, Rs 12.16 crores were adjusted towards contribution to general revenues and a substantial sum on account of arrears. In 1941-42, contribution to general revenues amounted to Rs 20.19 crores with the result that the amount of unpaid contribution now stands at Rs 12.61 crores. This fund began the year 1940-41, with assets of Rs 30½ crores. This excludes the debt of Rs. 30½ crores representing raids on the fund in the years of depression.

During 1936-37, Rs 121 lakhs were paid back to the Depreciation Fund. During 1937-38, 1938-39, 1939-40, 1940-41 and 1941-42, the Railways paid Rs 276 lakhs, Rs 137 lakhs, Rs 433 lakhs, Rs 12.16 lakhs and Rs 20.19 lakhs respectively as contribution to General Revenue.

The financial position of the State-owned Railways is as follows —

	Gross Receipts	Working Expenses*	Depreciation Fund	Interest Charges	Surplus or Deficit	Contribution to General Revenue	Transferred to Rly Reserve
			(in lakhs of Rupees)				
1925-26	98.94	52.99	10.67	24.81	9.28	5.49	79
1926-27	98.42	52.89	10.89	25.87	7.50	6.01	1.49
1927-28	103.43	53.06	11.38	27.77	10.85	6.28	4.57

\*Including suspense but excluding appropriation to and from the Depreciation Fund of State-owned Railways

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INDUSTRY, 22, R. G. Kar Road, Shambazar, Calcutta.

	Gross Receipts	Working Expenses*	Depreciation Fund	Interest Charges	Surplus or Deficit	Contribution to General Revenue	Transferred to Rly Reserve
			(in lakhs of Rupees)				
1928-29	103,73	54,22	12,00	29,33	7,81	5,23	2,58
1929-30	102,70	55,59	12,59	30,46	4,04	6,12	2 08
1930-31	95,10	54,39	13,07	32,72	-5,19	5,74	-10,93
1931-32	86,63	49,31	13,46	33,07	-9,20	Nil	-4,95
1932-33	84,43	49,08	13,77	32,91	-10,23	Nil	Nil
1933-34	86,63	49,50	13,56	32,58	-7,96	Nil	Nil
1934-35	90,20	50,27	13,72	31,80	-5,06	Nil	Nil
1935-36	90,65	50,87	13,25	31,39	-3,99	Nil	Nil
1936-37	95,49	50,25	13,17	30,81	1,21	Nil	Nil
1937-38	95,01	50,37	12,59	29,26	2,76	2,76	Nil
1938-39	94,48	50,76	12,56	29,30	1,37	1,37	Nil
1939-40	97,65	52,25	12,60	28,47	4,33	4,33	Nil
1940-41	112,00	53,26	12,66	28,74	14,59	12,16	Nil

As regards the arrears of contributions to the general revenues, it is stated that, until, the railways produced a surplus of the order of four crores and a half, the question of paying these arrears would not arise. The question relating to the Separation Convention and the question of evolving a more suitable system for the future will be gone into during the period of extension of the moratorium, but until the period of five years under the Niemeyer Award ended, no departure from the existing practice can be made.

Mention may be made of the fact that the extension of the moratorium in respect of the arrears of payments to the Depreciation Reserve Fund maintained for the Indian State-owned Railways and arrears of contributions to the general revenues, has been granted by the Central Assembly up to 1st April, 1942.

**State Railways Earnings.**—The following figures show the gross earnings of the principal State-owned Railways during the year 1941-42 as compared with the corresponding periods of the five preceding years—

	1936-37	1937-38	1938-39	1939-40	1940-41	1941-42
	(in lakhs of rupees).					
A B Ry	1,70	1,76	1,91	2,00	2,09	2,26
B N. Ry	8,39	9,48	9,47	11,02	12,07	13,28
B B & C I Ry	11,92	11,97	11,89	12,25	14,08	15,40
E B Ry.	5,77	5,82	5,94	6,22	6,77	7,24
G I Ry	19,51	21,08	20,77	21,51	24,42	27,01
G I P Ry	13,26	12,97	12,91	13,60	16,76	20,94
M & S M Ry	6,72	6,89	7,26	7,65	8,13	9,53
N W Ry	17,07	16,88	16,39	16,33	19,08	22,09
S I Ry	5,13	5,34	5,22	5,26	5,85	6,80
Tirhoot & Lucknow						
Bareilly Ry.	2,07	2,11	2,08	2,03	2,33	2,37
Other Railways	50	53	51	56	58	68
<b>TOTAL</b>	<b>92,04</b>	<b>94,84</b>	<b>94,35</b>	<b>98,43</b>	<b>1,12,16</b>	<b>1,27,60</b>

It will be seen that the earnings in 1941-42, were Rs 15.44 crores more than those in 1940-41 and Rs 29.17 crores more than those in 1939-40.

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The earnings from passengers in 1939-40 carried on all railways decreased from Rs 30,73,00,000 to Rs 30,47,00,000. The number of passengers carried in 1940-41 was 575,723,000 as against 529,700,000 in 1939-40 and 530,600,000 in 1938-39. Similarly, passenger-miles totalled 18,522,000,000 only, as against 18,743,000,000 in the preceding year. There was also a slight fall in the average lead per passenger, from 35.3 miles in 1938-39 to 35.0 miles.

The total freight tons carried in 1940-41 were 92,780,000 tons as against 92,200,000 tons in 1939-40. The net ton miles, similarly, rose from 22,159,000,000 in the previous year to 23,493,000,000, and the average haul likewise rose from 250.8 miles to 254.9. In 1940-41 nearly 693,000 persons were employed in State-owned railways in India involving a payroll of Rs 36.46 crores.

Goods earnings rose from Rs. 68,57,00,000 to Rs 72,56,00,000. Earnings from coal, rice and iron and steel (wrought) were the highest for the decade.

**State Railway Expenses.**—The expenses of the State-owned Railways during 1939-40 and 1940-41 follow—

	1939-40 (in lakhs of rupees)	1940-41
A, B Ry	1.19	1.29
B, N Ry	6.09	6.20
B, B & C, I Ry	5.80	6.00
E, B Ry	4.61	4.11
E, I Ry	10.60	11.00
G, I, P Ry	6.88	7.12
M & S, M Ry	3.80	3.80
N, W Ry	9.20	9.68
S, I Ry	2.90	2.90
Tirhoot & Lucknow Bareilly Ry	.89	.89
Other Railways	.29	.29
<b>TOTAL</b>	<b>52.25</b>	<b>53.26</b>

**Wagons Loaded.**—The following shows the number of wagons loaded in respect of the following commodities on the broad and metre gauges of the Class I Railway—

	1937-38	1938-39	1939-40	1940-41	1941-42
	(No. of Wagons Loaded)				
Coal and Coke	1,156,889	1,145,372	1,234,228	1,262,008	1,244,030
Grains and Pulses	708,151	724,745	792,799	732,370	722,400
Oilseeds	234,398	270,485	235,216	215,563	230,572
Cotton	164,221	163,517	166,849	178,946	171,048
Miscellaneous Small	1,721,796	1,761,276	1,749,061	1,821,930	1,603,961
Miscellaneous Full					
Wagons	2,737,156	2,737,816	2,884,073	2,946,773	3,099,256
Home line stores					
& Materials		447,487	420,776	431,251	428,202

**Munitions Production in Indian Railways.**—More than 16,000 men in railway workshops are working on munitions, and thousands of others are under training for workshops or railway military units.

The gauge of the Indian railways may be chiefly classified under three heads—Standard (5 ft 6 in.) gauge, Metre (3 ft 3½ in.) gauge, and Narrow (2 ft 6 in. and 2 ft.) gauge.

**Capital at Charge.**—The capital at charge at the end of the year 1940-41 was Rs 761 crores as against Rs 758½ crores in 1939-40 and Rs 847 crores in 1938-39. The chief reduction in the assets arise from

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the dismantling of the branch lines, the total mileage reduced by the end of the year ended March, 1940, being about 305 miles, of which 44 miles are of 2' 6" gauge and the rest broad gauge

**Railway Rates Advisory Committee.**—The committee has been constituted to investigate and make recommendation on (a) complaints of undue preference, (b) complaints about unreasonableness of rates, (c) complaints of disputes about terminals, (d) complaints about dearth of reasonable facilities in the railways. Headquarters of the Committee—Calcutta

**Works Programme for 1941-42.**—No expenditure is expected on new constructive projects. Important provisions include: Track renewals Rs. 6 crores, bridge work Rs 75 lakhs, structural works Rs 2½ crores, rolling stock Rs 4½ crores, locomotives and boilers Rs 181 lakhs, carriages Rs 89 lakhs, wagons Rs 169 lakhs and ferries Rs 18 lakhs, purchase of new lines Rs 4½ crores

**Rolling Stock Programme for 1943-44**—At the meeting of the Standing Finance Committee for Railways held on July, 4, 1942, the following rolling stock programme for 1943-44 was passed—

Capital Expenditure Rs 131 41 lakhs; Depreciation Rs 405 55 lakhs, Total Rs 536 96 lakhs. The total distribution by classes is as under—

	Depreciation		
	Capital	Fund	Total
	(in lakhs of rupees)		
Locomotives and boilers	77 54	134 26	211 80
Carriages	6 38	50.77	57 15
Wagons	47 49	220 52	268 01
<b>TOTAL</b>	<b>131 41</b>	<b>405 55</b>	<b>536 96</b>

Provision has been made for 31 new boilers, 11 broad gauge and 20 metre gauge engines on replacement account and 104 locomotives and 73 boilers on account of throw-forward. The carriage building programme has provision for 87 carriages. The wagon building programme includes provision for 2,858 broad gauge wagons, of which 500 are addition and 2,358 on replacement account. Of the latter 1,650 are required to replace stock sent overseas. The provision for 1,035 metre gauge general service wagons is all on replacement account. The detailed programme will be found elsewhere in this issue

## RAILWAY SYSTEM IN INDIA.

Indian Railways are grouped under 3 classes—

**CLASS I**—The Indian railways with annual earnings exceeding 50 lakhs of rupees belong to Class I. A list of the Class I railways and the tract these traverse follows—

**Baroda State Railways.**—The total mileage owned by the State was 723 miles of which 21 42 miles were broad-gauge, 345 85 miles metre-gauge and 355 73 miles narrow-gauge. The broad-gauge section was worked by the B B & C I Railway and the Okha Railway, the metre-gauge section of 37 21 miles by the Jamnagar and Dwarka Railway.

The gross earnings of the metre-gauge and narrow-gauge railways during 1940-41 amounted to Rs 61,62,000. The coaching and goods earnings on both the narrow gauge and metre gauge sections increased by Rs 6,33,000, as compared with the average of the previous ten years. The chief item of goods traffic on the State-managed railways is cotton.

**Bengal-Nagpur Railway.** It traverses tracts with rich deposits of minerals and operates about 3,500 miles of line. One main branch of

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the Railways runs from Howrah to Nagpur, where it joins the G I P lines, thus serving the eastern half of the Central Provinces, Bihar, Orissa, Western Bengal, etc. Another main branch of the Railway proceeds up to Waltair and Vizagapatam Port in the Madras Presidency branching off at Kharagpur. A secondary main line runs to the Bengal Coalfields connecting with the East Indian Railways at Asansol, Gomoh, Baikakana and Chandrapura. Among the branch lines, mention may be made of Purulia-Lohardaga, Tata-Barkakana, Tata-Badampahai, Sini-Asansol, Kanhan-Ramtek, Rajkhaishwan-Gua, Jharsuguda-Sambalpur, Katni-Bilaspur, Annupur-Chirmiri, Abhanpur-Rajm, Raipur-Dhamlali, Raipur-Vizianagram, Adra-Gomoh, Gondia-Jubbulpur, Nagpur-Itwari-Chhindwara, Tumsar-Tirodi, Khurda Road-Puri, Cuttack-Talcher, Mayurbhanj and Palakimedi Light Rly, etc. The most important junctions with the E I Ry are Howrah, Asansol, Gomoh, Baikakana and Jubbulpur, with the G I P Ry are Nagpur, Itwari, Katni, Jubbulpore and Parasia, with the M & S M Ry is Waltair.

Areas served are different parts of Bengal, Bihar, Orissa, Madras and the Central Provinces.

Main workshops are situated at Kharagpur and Headquarters of the Controller of Stores at their offices in Garden Reach, Calcutta.

Figures of working for the system, during 1941-42 follow.—Route mileage 3,379.95, number of passengers carried 24,012,121, amounts of goods carried 21,339,000 tons, Freight earnings (goods only) Rs 10,40,28,000, gross earnings Rs 13,42,18,000, new lines opened nil, gross expenditure (including appropriation to Depreciation Reserve Fund) Rs 7,72,10,000.

Head Office —Garden Reach, Calcutta.

**Bengal and Assam Railway.**—On the 31st December, 1941, the contract between the Government of India and the Assam Bengal Railways was terminated and the railway was purchased by the Government and amalgamated with the Eastern Bengal Railway. The line thus formed was styled the Bengal and Assam Railway.

The Bengal and Assam Railway serves the Province of Assam, Bengal and the north eastern portion of the province of Bihar.

The important lines are Calcutta to Silguri, Calcutta to Goalundo, Calcutta to Khulna, Calcutta to Sirajganj, Calcutta to Lalgola-Jogbani, Katihar to Lumding, Narayanganj to Bahadurabad and Chittagong to Tinsukia.

The Railway connects with other railways at Naihati, Katihar, Silguri, Mariani, Titabai and Tinsukia and with the river services at Goalundo, Khulna, Narayanganj, Chandpur, Jugannathganj, Sirajganj, Dhubri, Amingaon, Pandu, Silghat, Bhairab Bazar.

The Railway's broad gauge locomotive, carriage and wagon works are at Kanchrapara and its metre gauge locomotive and carriage and wagon works are at Saidpur and Pahartali.

Figures of working during 1941-42 are —

Route mileage 3,456, Number of stations 804, Number of passengers carried 171,600,717, Tonnage carried 8,920,000, Total gross earnings 10,18,06,471, Working expenses 7,18,13,257, New lines opened, Nil, Stores purchased 1,66,83,000, Number of staff employed 76,318, Head Office —3, Koilaghat Street, Calcutta.

**Bombay, Baroda and Central India Railway.**—It is the largest of the Company-managed Railway in India and operates over 3,509.41 miles of line of which 1,259.59 miles are broad gauge, 2,025.30 miles metre gauge and 224.52 miles narrow gauge during 1940-41. This serves the northern half of the Bombay Presidency, Central India and

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the Southern portion of Rajputana. The main line runs from Bombay to Delhi through Surat, Broach, Baroda, Dohad, Kotah, Muttra, etc. The Southern section of the Railway runs from Bombay to Vunamgam and Kharaghoda via Ahmedabad, while the northern section of the Railway extends through Rajputana to Delhi. There are also other important Branch Lines as Ajmer-Khandwa, Rewari-Fazilka, Agra-Cawnpore, Surat-Amalner, etc, etc. The Railway has junctions with G I P Railways, N W Rly., E I Railway and thus connects Bombay with the rest of India. It joins Jodhpur Railway at Maiwar Junction and thus forms part of a through route between Bombay and Karachi.

The Railway provides the shortest and quickest route between Bombay, Delhi and Northern India, and the Frontier Mail, a daily service de luxe, is one of the fastest and the best known, long distance trains operating in the East. It has its own workshops and Stores Depots in Bombay, with recently erected workshops at Dohad for the Broad Gauge system, and at Ajmer, the headquarters of the Metre Gauge system. There are Locomotive Workshops where locomotives are constructed, carriage and wagon shops, and a subsidiary stores Depot.

The results of the working of the Railways during 1940-41 are as follows—Route mileage 3,509.41 miles, number of passengers carried 104,678,100, weight of goods carried 10,583,000 tons, freight earnings (a) coaching Rs 53,693,000, and (b) goods Rs 91,973,000, gross earning Rs 14,80,63,000, new lines opened, nil total working expenses, Rs 7,63,39,000.

Head Office—Church Gate, Bombay

**East Indian Railway.**—The East Indian Railway is in point of route mileage the second largest of the Indian Railway systems but so far as freight traffic is concerned it is the most important. It serves the numerous cities of commercial, industrial, historical and religious importance in the Great Gangetic plain and serves as the outlet of the industrial quarters round Calcutta and the coal districts in Bengal and Bihar. The principal line runs from Howrah to Ghaziabad in the United Provinces serving the Western parts of Bengal, Bihar & United Provinces. The branch line linking Allahabad with Jubbulpore in the Central Provinces has been transferred under the control of the Great Indian Peninsular Railway while the lines which were formerly managed by the Oudh and Rohilkhand Railway have been added to it. Chief branch lines are—

Howrah-Mokameh Loop Line, Grand Chord Line, Bahaiwa-Bandel Line, Patna-Gaya Branch, Moghal Sarai-Saharanpur Line, etc. The Railway has junctions with the following railways

N W Railway—Saharanpur, Meerut, Ghaziabad, B B. & C I. Railway—Agra East Bank, Farukhabad, Hathras, Cawnpore, G I P. Railway—Cawnpore, Chheoki, Jumna Bridge, B N Railway—Howrah, Asansol, Pathardih, Bhaga, Katrasgarh, Baikakana, Gomoh, B & N W Railway—Barabanki, Cawnpore, Jaunpur, Shahganj, Benares Cantt., Tanihat, Digba Ghat, Mokameh Ghat, Bhagalpur, B A Railway—Naihati, Mamharai Ghat, R & K Railway—Bareilly, Moradabad, Lucknow.

The gross earning for 1941-42, namely Rs 27,23,67,000 showed an increase of Rs 2,81,93,000 equivalent to 11.55 per cent increase compared with the preceding year. The goods traffic earning was Rs 18,46,96,000 against Rs 17,03,12,000 in the preceding year. Passenger train miles in 1941-42 namely 17,425,000 showing a decrease by 63,000 or by 0.36 per cent. Passenger traffic earning amounted to Rs 6,55,12,000 showing an increase of Rs 73,69,000 or 12.67 per cent. Working expenses were

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Rs 15,48,13,000 showing an increase of Rs 1,98,92,000 or 14.74 p c compared with the preceding year.

**Workshops**—This Railway's carriage and wagon shops are situated at Lillooh and Lucknow (Alambagh) and Loco shops at Jamalpur and Lucknow (Chabagh)

**Head Office**—Fairlie Place, Calcutta.

**Great Indian Peninsula Railway.**—This is the third largest railway in India with route mileage of 3,564.86. It is the first system in India to develop electrical traction. It serves the Central portion of the Bombay Presidency, Hyderabad, Western half of the Central Provinces, Central India, lower parts of the United Provinces and some parts of Rajputana. One line connects Bombay with Delhi, another with Allahabad, via Jubbulpore, another line extends from Bombay to Raichur via Poona while a fourth joins the Bengal Nagpur Railway at Nagpur. The branch lines are Dhond to Manmad, Harsi to Nagpur, Katni to Bina, Kotah to Bina, etc. The system makes important junctions with other railways B & C I Ry—Bombay, Amalner, E I Ry—Allahabad, Delhi, Agra, Cawnpore, N W Ry—Delhi, B N Ry—Katni, Jubbulpore, Nagpur, M & S M Ry—Poona, Hotgi, Raichur, Nizam's State Railway—Balharshah, Wadi.

**Figures for 1940-41 follow**—Route Mileage—Broad Gauge 3,363.30 miles, Narrow Gauge 201.56 miles, No of passengers carried 62,907,548, Tonnage of Goods carried 12,063,672 Tons, Freight earnings Rs 11,30,73,086, Gross earnings Rs 17,46,55,632, New lines opened Nil.

**Head Office**—Victoria Terminus, Bombay.

**Jodhpur Railway**—This serves the Eastern part of Sind and North-Western part of Rajputana. It runs from Hyderabad (Sind) to Kuchaman Road via Luni Junction, Jodhpur, Pipal Road, Merta Road, Degana and Makrana and from Luni Junction to Maiwari Junction. Its branches are (1) Pithoro-Jamras Loop, (2) Mirpur Khas-Nawabshah (in Sind), (3) Balotra-Pachpadia Salt Depot, (4) Samdani-Raniwara, (5) Maiwari Junction—Phulad, (6) Jodhpur-Pokaran, (7) Pipal Road—Bilara, (8) Merta Road—Merta City, (9) Merta Road—Chilo, (10) Degana—Sujangarh, (11) Makrana—Paibatsar. At Chilo Junction and Sujangarh Junction it joins the Bikaner State Railway carrying traffic to Bhatinda and Hissar respectively. At Kuchaman Road and Maiwari Junction it joins the B & C I Railway for traffic to Delhi and Bombay respectively. The North-Western Railway joins the Jodhpur Railway at Hyderabad for traffic to Karachi and at Nawabshah for traffic to Upper Sind. At Phulad it joins the Mewar State Railway for traffic to Udaipur.

**Figures of working during 1941-42 follow**—

Route mileage 1,125.69, Number of passengers carried 59,38,219. Amount of Goods carried 14,92,454 tons, Freight earnings Rs 1,01,96,671, Gross earnings Rs 1,70,69,584, Stores purchased Rs 23,38,320, Gross expenditure Rs 73,78,932.

**Important changes in fares and goods tariff are as under**—

(1) A reduced rate for soda ash or soda crystals in wagon loads from Dhrangadra to Hyderabad (Sind) via Marwar Jn was introduced in competition with the rail-cum-sea route via Karachi.

(2) A reduced rate for tea O R. from Howrah to Hyderabad (Sind) via Agra East Bank and Kuchaman Road equal to that obtaining via all B G route was introduced.

(3) A reduced rate for coconuts and coconuts kernels in bags W/270, O R L from Badagara to Hyderabad (Sind) via Jalarpur,

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Aikonam, Raichur, Dadar and Marwar Jn was quoted in competition with the sea-cum-rail route via Karachi.

(4) Reduced rates for sugar at O R. from certain stations on the R. & K and B. & N W. Railways to Hyderabad (Sind) were introduced in order to ensure that sugar from these stations is booked direct to Hyderabad (Sind) instead of being first booked to Karachi and thence rebooked to Hyderabad (Sind) as was being done previously.

(5) Reduced rates quoted for wheat from Nawabshah and Hyderabad (Sind) to Bombay via Marwar Jn were extended to apply from via Hyderabad (Sind) and via Nawabshah for traffic from N W. Railway stations

(6) Concessions for Easter & Divali holidays for all classes were allowed.

(7) Third class zone tickets were introduced over the Gadra Road—Hyderabad (Sind) section including Pithoro—Jamrao loop line and Mirpurkhas—Nawabshah Railway to stimulate passenger traffic in slack season

(8) 3rd class single journey tickets at reduced fares between certain stations in Sind and all concession return tickets issued over this railway were withdrawn due to suspension of competitive bus services and to discourage passenger traffic during the present emergency

**Madras and Southern Mahratta Railway.**—It affords direct communication between various places in the Madras Presidency, and in connection with other Railways forms direct main line through routes from Madras to Calcutta, Bombay, Upper India and to Mangalore and West Coast. The chief lines run from Madras and Poona, and thus serve the Northern and Central parts of the Madras Presidency, a small part of Hyderabad and the Southern part of the Bombay Presidency and Mysore. The important junctions are—N. S. Railway—Dronachellam and Bezwada; G. I. P. Railway—Raichur, Poona, Hoga, B. L. Railway—Miraj, B. N. Railway—Waltair, S. I. Railway—Madras, Arkonam, Katpadi, Jalarpet, Mysore Railway—Bangalore, Bowringpet, Harihar and Hindupur.

Figures for 1940-41 Route Mileage 2935.90, Gross earnings Rs. 805 lakhs, Gross expenditure Rs. 380 lakhs

Head Office—Park Town, Madras

**Mysore State Railway.**—The total mileage of the lines in the State is 757.70 miles, of which 9.88 miles of Broad Gauge are worked by the M. & S. M. Railway Company and 747.82 miles (Metre Gauge 609.42 miles, 2'—6" Gauge 102.20 miles and 2ft.—0 in Gauge 36.20 miles) are worked by the State

Particulars of working for 1941-42 are given below—

Route Mileage 747.82 miles, No. of passengers carried 1,16,12,994, No. of tons carried 12,32,220, Freight (Goods) Earnings Rs. 55,19,293, Stores Purchased Rs. 20,32,885, Gross Earnings Rs. 103.40 lakhs, Gross Expenditure Rs. 65.41 lakhs

Head Office—Mysore

**Nizam's State Railway.**—This serves the Hyderabad State. The system furnishes a direct through route between Madras, Delhi and the North. The railway connects at three points with the G. I. P. Ry., viz. Wadi, Manmad and Balharshah. It has two exchange points with M. & S. Ry. at Bezwada (for Madras and Coochabada points) and at Dronachellam. The chief lines are Wadi-Bezwada including mineral branch Karepalli-Kothagudam, Kazipet-Balharshah, Vikarabad-Purli-Vairnath, Secunderabad-Manmad, Purna-Hingoli, Parbhani-Purli, Secun-

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derabad-Dronachellam A branch line to serve the sugar factory at Bodhan has been constructed and construction of new line to serve Adilabad abounding in minerals and agricultural and forest products has been sanctioned

Figures for 1941-42—Route mileage 1,360 No of passengers carried 93,89,000. Tonnage of goods carried 34,16,000, Freight earnings Rs 3,14,95,000, Gross earnings Rs 3,20,39,000, Stores purchased Rs 61,52,000

Lines under Construction—A new line (101 mile), from Mukhed to Adilabad to serve the Adilabad District abounding in minerals and agricultural and forest products

Head Office —Secunderabad (Deccan), Workshop, Lallaguda

**North Western Railway.**—This is the longest railway in India and comprises 7088.23 route miles, including the Nekkundi-Zahidan (157.28 miles single line), the Landi Kotal-Landi Khana (5 miles, single line) and the Baijnath Paprola-Jogindar Nagar (14.53 miles single line) section closed to traffic. It serves almost the whole of the Punjab, Sind, North-West Frontier and Baluchistan Provinces. The two most important main lines connect Delhi with Peshawar Cantonment and Delhi with Karachi via Lahore. Some of the important branches are — Bhatinda to Samasatta, Bhatinda to Rajpura, Wazirabad to Khanewal, Wazirabad to Jammu Tawi, Rawalpindi to Kohat Cantt, Pathankot to Amritsar, Lahore to Lyallpur, Ludhiana to Hissar and Ferozepore to Hoshiarpur. The N W Ry, connects with the East Indian Railway at Saharanpur, Meerut and Ghaziabad and with the Great Indian Peninsula Railway at Delhi. The Bombay Baroda and Central India Railway metre gauge line from Ahmedabad and Khandwa has interchange facilities with the North Western Railway at Delhi, Hissar, Bhatinda, Fazilka and Kot Kapura while the Bikaner Railway connects at Bhatinda and Jodhpur Railway at Hyderabad and Nawabshah

Figures for working in 1939-40 Total route mileage 6,941 miles Number of passengers carried 67,246,000, total tonnage carried 1,35,72,000 Freight earnings (excluding miscellaneous goods earnings) Rs 1,06,79,653 and gross earnings Rs 16,89,78,546 Stores purchased Rs 2,76,69,757 Gross expenditure Rs 11,96,45,179

Head Office —Lahore

**Oudh Trihut Railway.**—It is the only big Indian line that is not based upon one or other of the four principal cities—Delhi, Bombay, Calcutta and Madras. Its system, constructed throughout on the metre gauge traverses some of the richest and densely populated parts in Northern India and taps at several places the independent State of Nepal. This connects Bihar with Bengal on the one hand and the United Provinces on the other. The principal line extends from Katihar on the B & A Ry to Cawnpore in the United Provinces. The other branch lines consist of Mokameh Ghat to Sonapur via Muzaffarpur, Chapra to Benares Cantt, Gorakhpur to Gonda, Shahganj to Ballia, Narkatgunj to Darbhanga, etc, etc. It joins the Rohilkhand and Kumaon Railway at Sitapur and Lucknow and makes important connections with E I Ry. at Mokameh Ghat, Cawnpore, Benares, Allahabad, Patna, Bhagalpur and Barabanki. It joins the G I P at Cawnpore and Allahabad and B B & C I at Cawnpore again. In fact the Railway serves U P and Bihar provinces north of the Ganges. Cawnpore to Katihar.

Figures of working during 1940-41 —Route mileage 2,098, number of passengers carried 33,624,000, goods carried 4,548,000

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tons, freight earnings Rs 2,44,45,000, gross earnings Rs 41,384,000, stores purchased Rs 5,720,000, gross expenditure Rs. 1,84,15,000 New Lines opened Nil

Hd Office —Gorakhpur

**Rohilkund and Kumaon Railway Co., Ltd.**—This Railway runs from Lucknow on the E I Ry. to Kasganj on the B B & C I Ry passing through Sitapur, Lakhimpur Kheri, Gola Gokarannath, Pilibhit, Bareilly, Budaon and from Bareilly to Kathgodam the station nearest Naini Tal It also serves by branch lines the area bordering Nepal, also Shahjehanpur, Moradabad and Ramnagar at the foot of the hills

Head Office —Izmatnagar

**South Indian Railway:**—The system is well connected up and the new lines opened during recent years help to consolidate railway facilities in Southern India The main line extends from Madras to Rameswaram and Dhanushkodi while others are Madras to Mettupalaiyam, Madras to Mangalore via Podanur, Trichinopoly to Erode, Madurai to Tuticoum, Maniyachi to Trivandrum via Quilon, etc. There are connections via Dhanushkodi and Talaimannar with Ceylon The Railway has junctions solely with Madras and Southern Mahratta Railway, contact being made at Madras Beach, Jalarpet, Katpadi and Arkonam

Figures of working for 1940-41 —Route mileage on 31st March, 1941, 250018. Number of passengers carried 57,349,847 Tonnage of Goods carried 5,486,188, Freight earnings (Goods) excluding Steam Boat Rs 352,73,946, Gross earnings Rs 6,14,54,661. Stores Purchased Rs 78,95,000, Working Expenses Rs 3,29,04,854

### MINOR RAILWAYS IN INDIA.

**CLASS II**—Those railways whose earnings exceed Rs 10 lakhs a year but are less than Rs 50 lakhs are—

Barsi Light Railway, Bhavnagar State Railway, Bikaner State Railway, Darjeeling-Himalayan Railway, Dibru-Sadiya Railway, Gondal Railway, Howrah-Amta Light Railway, Jamnagar and Dwarka Railway, Junagad State Railway, Morvi Railway, and Shahdara-Saharanpur Light Railway

**CLASS III**—The following are some of the railways whose earnings fall below Rs 10 lakhs a year —

Aden Railway, Ahmedpur-Katwa Railway, Allah-Sasaram Railway, Bankura-Damodar River Railway, Baraset-Basihat Light Railway, Bengal Provincial Railway, Bukhtiarpur-Bihar Light Railway, Burdwan-Katwa Railway, Cutch State Railway, Dehra-Rohtas Light Railway, Dholpur-Bari Railway, Futwah-Islampur Railway, Gwalior Light Railway, Howrah-Sheakhala Light Railway, Jagadhri Light Railway, Jorhat (Provincial) Railway, Kalighat-Falta Railway, Kolai District (including Bangalore—Chik Ballapur Light Ry) Railway, Kulasekarpattanam Light Railway, Matheran Light Railway, Tezpur-Balipara Light Railway, Trivellore Light Railway, Udaipur-Chitorgarh Railway

### GENERAL RULES ON INDIAN RAILWAYS.

**Free Allowance for Luggage.**—All passengers' luggage is weighed and the following quantities are allowed free of charge —

For each 1st Class Passenger	—	—	1½ maunds
" " 2nd Class Passenger	—	—	1 maund
" " Inter Class Passenger	—	—	30 seers
" " 3rd Class Passenger	—	—	25 seers

and half of these quantities is allowed for each child's (half) ticket

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Bedding, Walking sticks, Tiffin baskets, etc., are allowed free

**Rates for parcels exceeding  $2\frac{1}{2}$  seers in weight.**—Parcels exceeding 2½ seers in weight shall be charged at scheduled rates according to weight of the parcel on the through distance

**Payment of charges.**—Except in the case of dangerous and other goods specially provided for in the General Classification of Goods or in Exception Lists for which prepayment of freight is compulsory, all charges must be paid either when goods are presented for despatch or at the time of delivery, and all goods are subject to lien not only for the freight, wharfage demurrage and handling charges on the particular goods but also for any general balance which may be due to the Railway by the owner or consignor or consignee of such goods. If the money in respect of which goods are detained be not paid they may be sold by auction, in the case of perishable goods at once and in the case of other goods, on the expiration of 15 days' notice of the intended auction and the proceeds applied in liquidation or reduction of the amount due and expenses

**Notice of loss or damage.**—The Railway shall not be responsible for any damage to, or loss of property unless notice of such is given the Railway's premises of the property or of the package or packages, the contents or parts of the contents of which are alleged by the claimant to be damaged or lost or of the rest of the consignment, a portion of which is alleged by the claimant to be lost (as the case may be)

**Time-limit of claims for compensation.**—No person shall be entitled to claim compensation for loss, destruction or deterioration of animals or goods delivered to be carried by the Railway unless a claim is preferred in writing to the Railway Administration within six months from the date of the delivery of the animals or goods for carriage by Railway

**Time limit for refund of over-charges.**—No person shall be entitled to a refund of an overcharge in respect of animals or goods carried by railway unless his claim to the refund has been preferred in writing by him or on his behalf to the Railway Administration within six months from the date of the delivery of the animals or goods for carriage by railway

**Risk Notes.**—In all cases when goods or livestock are conveyed at the risk of the owner or on the understanding that the risk accepted by the Railway is limited to any extent the full value of the consignment or the several sums prescribed in the Indian Railways Act IX of 1890, the consignor is required to execute a risk note

#### GOODS TARIFF.

The Indian General Railway classification of goods comprises 16 classes, each with a scale of maximum and minimum rates and is in force in most of the railways. But goods are often carried at reduced commodity rates, either on the basis of fixed reduced schedules or at special lumpsum rates

Whereas the maximum and the minimum rates are the same for all Indian railways there remains a wide margin between the two to enable each railway to regulate its charges within the maxima and minima limits

The maximum and minimum rates for the 16 classes into which the goods have been grouped are as follows —

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	Maximum pies per md per mile	Minimum pies per md per mile		Maximum pies per md per mile.	Minimum pies per md per mile
1	38	100	4B	72	166
2	42	100	5	77	166
2A	46	100	6	83	166
2B	50	100	6A	89	166
2C	54	100	7	96	166
3	58	166	8	1 04	166
4	62	166	9	1 25	166
4A	67	166	10	1 87	166

The following is the scale of maxima and minima rates for the carriage of coal including coke and patent fuel for the public exclusive of a surcharge of 20 per cent generally imposed on coal.—

#### Maxima Rates

- (I) In wagon loads at O R. per maund per mile.
- (a) For distances upto 400 miles—  
For the first 200 miles 0 165 pie.  
Plus for extra distance above 200 miles and upto 400 miles 0 150 „
- (b) For distance above 400 miles—  
For the first 400 miles 0 15 „  
Plus for the distance in excess of 400 miles 0 10 „
- The above rates are subject to the Differential Rule
- (II) In consignments of less than in wagon loads at O R.  $\frac{1}{2}$  „
- (III) In wagon loads at R R. 38 „
- (IV) In consignments of less than in wagon loads at R R.

#### Minima Rates

- For distances up to 300 miles 0 10 „
- Plus for any distance in excess of 300 miles and upto 500 miles, inclusive 0 066 „
- Plus for any distance in excess of 500 miles 0 05 „

The surcharge does not apply in the case of (1) soft coke and (2) coal and coke consigned to Howrah and Calcutta, and (a) exported thence by sea to any port foreign or Indian, or (b) loaded for bunkering in the sea-going vessels within the limits of the port of Calcutta

#### PAYMENT OF RAILWAY ANNUITIES

The Government of India has entered into an agreement with His Majesty's Government, whereby the former, by making a lumpsum capital payment to the latter, has assured the provision of funds necessary to meet future payments in respect of sterling railway annuities. The aggregate amount of such payments which remain to be made after 1st October, 1942, is £34,114,654. The various purchase Acts relating to railways specifically impose this liability on the revenue of India. The Government of India will now pay to His Majesty's Government a lumpsum of £30,054,250 as against the outstanding liability of £34,114,654. In return for this, His Majesty's Government has given an undertaking to provide the Government of India with sums equal to the requisite instalments for the several annuities as and when they fall due. Henceforward, it will no longer be necessary for the Government of India to make any provision from Indian revenues in connection with railway annuities. Arrangements have been

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made by the Government of India with Reserve Bank of India for financing the above mentioned payment through ways and means advances and the issue of ad hoc Treasury Bills against the release of sterling from the Issue Department of the Bank, which will be liquidated in due course. In order to assist the financing of this operation, the Government is raising a new loan to the extent of Rs 15 crores by making a further issue of the existing 3 per cent 1963-65 loan, the issue price being Rs 95.

#### PAYMENTS OF RAILWAY'S STERLING LIABILITIES

Except for some £9 million which is the share capital of three railways still to be acquired, by the State, India has now paid off or will have paid off in a year's time, all her liabilities to Britain in respect of her railways. The Bengal-Nagpur, the Madras and Southern Mahratta and the South Indian Railways and only three foreign-owned branch lines will be left over for purchase. In pursuance of the policy of repatriating their sterling debt the Government of India—have arranged to repatriate the following debenture stocks of the aggregate nominal value of £200 million, the rupee counterpart prices of which per debenture of £100 are given in the brackets—

East Indian Railway irredemnable 4½ per cent debenture stock (Rs 1,499-2), Great Indian Peninsula Railway irredemnable 4 per cent debenture stock (Rs 1,392-0), South Indian Railway perpetual 4½ per cent debentures stock (Rs 1,449-4), East Bengal Railway irredemnable 4 per cent debenture stock (Rs 1,392-0), Burma Railways 3 per cent debenture stock (Rs 1,177-14), East Indian Railway 3 per cent new debenture stock (Rs 1,234-0), Bengal and North Western Railway 5 per cent special debenture stock (Rs 1,371-15), Bengal Nagpur Railway Company Limited, 4 per cent debenture stock (Rs 1,361-14), and South Indian Railway Company Limited, 4 per cent registered debenture stock (Rs 1,361-14).

The Secretary of State has also given a year's notice to redeem the following railway debentures aggregating £111 million—East Indian Railway 3½ per cent debenture stock, Great Indian Peninsula Railway 3½ per cent 95 debenture stock and Bombay Baroda and Central India Railway 3½ per cent debenture stock. These will be paid on the 4th February, 1944.

#### INDIA'S RAILWAY TRANSPORT DIFFICULTIES

During this war time the difficulties of Indian railways, which constitute the most important means of transport, are due to shortage of wagons and locomotives in the face of the increased pressure upon the railway system caused by war demands. These difficulties must be attributed more to the lack of a sufficient number of locomotives than to shortage of wagons. There are three ways of increasing the supply of locomotives. The first is to manufacture locomotives in India, but those railway workshops capable of undertaking the manufacture of locomotives are busy with the production of important munitions. The second possible method of improving locomotive supplies is to expedite repairs, and the third is to get imports of locomotives from abroad. In regard to wagons, it may be said, that India now possesses the requisite materials required to manufacture them. Besides these if vigorous efforts by the authorities are made to curtail unnecessary traffic and to eliminate transport of materials over long distances if such materials are available in the areas round about the centres where they are required India's railway transport difficulties can to a large extent be removed.

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# SHIPPING INFORMATION

**W**ITH coastline of 2,500 miles and a foreign trade aggregating a sum of 430 crores of rupees, India harbours a large number of ports showing a great variation in shipping accommodation and the volume of foreign trade passing through them. The ports are generally classified as major ports and sub-ordinate ports. Calcutta, Bombay, Karachi, Madras and Chittagong which enjoy among them 85 per cent of the total foreign trade of India are classed as major ports while ports in a province next in importance to the chief port are known as sub-ordinate ports. A list of principal ports of India follows —

**Bengal—**Calcutta, Chittagong, Cox's Bazar, Nilla

**Bombay Presidency—**Bombay, Ratnagiri, Broach, Karanj, Dabhol, Uran, Henawar, Malwan, Bhandup, Bankut, Vengurla, Surat, Sanikatta, Revdanda, Belapur, Jaitapur, Karwar, Dharsana, Trombay

**Madras Presidency—**Madras, Cochin, Tuticorin, Calicut, Cocanada, Mangalore, Masulipatam, Vizagapatam, Dhanuskodi, Cuddalore, Napatam, Cannanore, Badagara, Tellicherry, Bimlipatam.

**Orissa—**Balasore, Calingapatam, Chandbali, Gopalpur, Cuttack, False Point, Puri

**Sind—**Karachi, Ketī Bandar, Sando Bandar, Shaha Bandar.

**French Ports—**Pondicherry, Mahe, Karikal.

**Portuguese Ports—**Mormugao, Porto Novo

**Indian States—**Bedi (Nawanagar), Okha (Baroda State), Porbandar (Porbandar State), Bhavnagar (Bhavnagar State), Alleppey, Colachel and Quilon (Travancore), Mandvi (Cutch), Jafarabad (Jafarabad State), Junagadh (Junagadh State), Navlakhi (Morvi State)

A table giving the tonnage entered and cleared with cargoes in India (proper) excluding Burma during the five years ending 1939-40 is given below. The figures for 1939-40, though smaller than those for the previous year are still considerably better than could be expected under the abnormal conditions prevailing since the declaration of war. With the introduction of the convoy system aided by the air force, conditions generally improved. Nevertheless, the shortage of shipping space and a great increase in freights and war risk insurance rates continued to hamper the export trade in many commodities.

			Tonnage entered with cargoes	Tonnage cleared with cargoes
			(in 1,000 tons)	
1935-36	—	—	9,232	8,702
1936-37	—	—	8,915	9,107
1937-38	—	—	9,040	9,501
1938-39	—	—	9,431	9,657
1939-40	—	—	9,232	9,059

The major ports of Calcutta, Bombay, Rangoon, Karachi, Madras and Chittagong are for administrative purposes placed under the control of bodies styled Port Trusts or Port Commissioners, who, subject to the control of the Local and Imperial Government, have certain wide powers vested in them by law to levy dues and taxes in connection

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with the landing and shipping of goods and to utilise the amounts so realised for the betterment of the port

#### COASTAL AND INLAND SHIPPING.

**Asiatic Steam Navigation Co., Ltd., (A. S. N. C.)**—Sailings to Colombo and Bombay via Coast ports, also Middle East Managing Agents—Turner Morrison & Co. Ltd, 6, Lyon's Range, Calcutta.

**Bengal Assam Steamship Co., Ltd.**—Maintains a service of steamers and flats for the transport of produce, principally jute, on the rivers of Bengal Managing Agents—Andrew Yule & Co., Ltd, 8, Clive Row, Calcutta

**Bengal River Service Co., Ltd.**—Ply regularly a cargo service between Calcutta and Eastern Bengal and Assam Agencies—Dacca, Narainganj, Mirkadum, Bhairab, Chandpur, Madaripur, Charmuguria, Khulna, Dhubri, Goalpara, etc

**Bombay Steam Navigation Co., Ltd., (B. S. N. Co.)**—The Company have headquarters at Bombay Their principal routes are from Bombay to Mangalore (421 miles) via Mormugao and from Bombay to Kiamari (Karachi) (546 miles) via Porbunder, touching at the more important ports on way The steamers of the Company ply on the following lines, calling at intermediate ports—Bombay-Mangalore, Bombay-Karachi, Bombay-Gulf of Cutch, Bombay-Bhavnagar, Bombay-Nahava, Bombay-Dharamtar, Bombay-Dabhol, Bombay-Viziadurg, Bombay-Panym, Agents—Killick Nixon & Co, 100, Frere Road, Bombay

**Calcutta Steam Navigation Company Limited (C. S. N. Co.)**—The Principal lines are Calcutta to Ghatal (touching at Geonkhali, Kolaghat and Ranichuck), Kolaghat to Ranichuck, Calcutta to Nuddea (touching at Santipur and Kalna). Ferry Services are run between Chandpal Ghat, Rajgunge and intermediate stations in the Port of Calcutta These Services are run throughout the year The Services from Calcutta to Islampore, Calcutta to Dhulian (touching at Katwa, Jangpur and Raghunathgunge), are run during the rains The company owns, among others 5 double-decked steamers, 14 launches and tugs, 192 lighters, 17 barges and flats The company also owns a workshop at Bally (The Ganges Engineering Works) for the building and repairing of various types of water vessels It also acts as Shipping and Clearing Agents The Managing Agents of the company are Hoare, Miller & Co, Ltd, 5, Fairlie Place, Calcutta

**East Bengal River Service Ltd.**—Regular Bi-weekly services on Mondays and Thursdays from Calcutta to Chandpur, Narayanguni, Kamlaghat, Dacca and Bhairab Carry jute and other merchandise to Calcutta from Ashuganj, Bhairab, Narsingdi, Dacca, Narayanganj, Sherajdigha, Tarpassa, Chandpur, Jobsa, Charmugria, Madaripur, Khulna, etc Mng Agents—Raja Sreenath Roy & Bros, 87, Sovabazar Street, Calcutta, Phone BB 1138, Telegrams "Indosteam," Calcutta

**Eastern Steam Navigation Co. Ltd.,** 24 Mangalore Street, Fort, Bombay—Mng Agents Shariff Hassum & Co, Bombay Agents—L V Govindji & Co, Campbell Street, Karachi, Hemraj Pitamber, Cannanore, Kanji Raichand & Co, Tellicherry, Badagara and Calicut, Goverdhan Hathibhai & Co., Cochin & Alleppey, V N P Ramasami Nadar, Tuticorin, A Nanji & Co, Colombo, Pyarelal Malhotra, Madras

**India General Navigation and Railway Co., Ltd., and Rivers Steam Navigation Co., Ltd.**—Operate goods services between Calcutta and all parts of Assam, Eastern Bengal, Bihar and the United Provinces The most important services are (1) Calcutta (Jaggernathghat) to Dibrugarh (Assam) including cargo for Churmugria, Sirajganj,

**The Sphere of Tea: An exposition of the Cultivation, Manufacture and Trade of Tea in India.** Rs. 3. Industry Book Dept., Shambazar, Calcutta.

Jagannathganj, Dhubri, Gauhati Bazar Ghat, Tezpur, Silghat, Desangmukh and Dibrugarh (2) Calcutta (Armenian Ghat) to Silchar including cargo for Chandpur, Mirkadim, Narayanganj, Dacca, Bhairab, Markuli, Chhatak, Sylhet, Fenchuganj, Karimganj, and Silchar (3) Calcutta (Juggernathghat) to Barisal including cargo for Khulna, Hularhat, Jhalakati, Barisal, Patuakhali and Bhowaniganj (4) Calcutta (Juggernathghat) to Ganges Stations up to Buxar Ghat and Burhaj including cargo for Goalundo, Pabna, Rajshahi, Lalgola, Rajmahal, Bhagalpur, Khagaria, Monghyr, Semeria, Mokameh, Patna, Digha, Ballia and Buxar

The chief passenger services are (1) Goalundo to Narayanganj, Dacca, Chandpur (for Chittagong, Silchar and Sylhet), Fulchari and Bahadurabad (2) Khulna to Barisal, Chandpur and Dacca, Khulna to Madaripur, Satkhira, Boalmari, Magura (3) Barisal to Madaripur, Tarpasa, Bhowaniganj, Sylhet, Jhalakati, Bagirhat, Patuakhali, Galachipa and Khepupara (4) Narayanganj to Bhairab, Chhatak, Porabari (5) Sirajganj to Jagannathganj, Charabari (6) Amingaon and intermediate stations to Tezpur and Kakilamukh (7) Dhubri to Goalpara

Full details can be had from Messrs Kilburn & Co, Managing Agents, I G N & Ry Co, Ltd, 4, Fairlie Place, Calcutta, and Messrs Macneil & Co, Agents, R. S N Co, Ltd., 2, Fairlie Place, Calcutta

**Indian Co-operative Navigation & Trading Co., Ltd.**—Steamers of the Company ply between Bombay and Dabhol touching intermediate ports Office.—Dougall Road, Scindia House Ballard Estate, Bombay.

**Merchant Steam Navigation Co.**—Owners of steamers and carriers of cargo Head Office, Masjid Bridge, Bombay 9, Branches, Tellicherry, Badagara, Calicut and Alleppey Agts—Cannanore, Cochin, Tuticorin and Karachi

**National Steam Service Ltd.**—The company carries on business of carriers and charterers Head Office—14, Hara Ch Mullick Street, Hatkhola, Calcutta

**Scindia Steam Navigation Co., Ltd.**—The biggest Indian managed shipping company having fortnightly services between Calcutta and Karachi via coast ports, according to demand Agts—Norottam Moraijee & Co, Scindia House, Ballard Estate, Bombay, Gopalpur, Calcutta, Calicut, Karachi Agents at Chittagong, Puri, Vizagapatam, Bimlipatam, Cocanada, Madras, Pondicherry, Cuddalore, Negapatam, Jaffna, Point Pedro, Galle, Colombo, Pambam, Tuticorin, Tirvandrum, Quilon, Alleppey, Cochin, Marmugao and Kathiawar Ports

#### OVERSEAS SHIPPING.

*Due to war conditions sailings are made as opportunity offers*

**American Conference Lines:**—Direct service from Calcutta to Boston, New York, Philadelphia, Norfolk and Baltimore via Colombo Agts Gladstone Wylie & Co, 4, Fairlie Place, Calcutta, Grahams Trading Co. (India) Ltd, and Turner Morrison & Co Ltd, 6, Lyons Range, Calcutta

**American Pioneer Line**—Sailings from the chief ports of India to New York, Baltimore, Philadelphia, Norfolk etc Agents—Lionel Edwards Ltd, Calcutta; also at Bombay, Karachi, Madras, Colombo.

**Anchor Brocklebank Line**—Sailings to U K. Ports Joint Agts—Turner Morrison & Co, Ltd, Calcutta and Grahams Trading Co (India), Ltd, Calcutta

**Bank Line Ltd.**—Direct service to West Coast, South America, taking cargo for Chilean Ecuadorian and Peruvian Ports, Agts—Turner Morrison & Co, Ltd, 6, Lyons Range, Calcutta.

**The Sphere of Tea: An exposition of the Cultivation, Manufacture and Trade of Tea in India.** Rs. 3. Industry Book Dept., Shambazar, Calcutta.

**Brocklebanks' Calcutta Agency**—Sailings from Calcutta and Colombo to U. K. Ports as opportunity offers and with liberty to call at Madras Coastal Ports Joint Agents—Grahams Trading Co. (India), Ltd., and Turner Morrison & Co, Ltd, 6, Lyons Range, Calcutta.

**Brocklebanks' Cunard Service**—Sailings from Calcutta to Boston, New York, Philadelphia, Baltimore and Norfolk via Colombo, and Cape of Good Hope Agts—Grahams Trading Co (India), Ltd, 6, Lyons Range, Calcutta

**Clan Line of Steamers Ltd**—Load cargo at Calcutta and Chittagong for U K Ports and touch at Bimlipatam, Cocanada, Madras, Tuticorin and Colombo, etc Agts—James Finlay & Co, Ltd, 1, Clive Street, Calcutta, Chittagong, Colombo, Bombay and Karachi, Ripley & Co, Bimlipatam and Cocanada, Gordon Woodroffe & Co (Madras), Ltd, Vizagapatam and Madras, A & F. Harvey, Tuticorin, Pierce Leslie & Co, Ltd, Calcut, Cochin, Mangalore, Volkart Bros, Agency, Mormugao, Clark Spence & Co, Galle

**Elder Dempster.**—Direct service to West Africa. Agents—Turner Morrison Co, Ltd, Calcutta.

**Ellerman and Bucknall Steamship Co., Ltd.** (American and Indian Line)—Direct service to Halifax N S, St John N B Boston, New York, Philadelphia, Baltimore, Norfolk and Montreal via Colombo. Agts—Gladstone Wyllie & Co, 4, Fairlie Place, Calcutta, Best & Co, Ltd, Madras, Forbes, Forbes Campbell Co, Ltd, Karachi and Bombay

**Ellerman's City Line**—Cargo and passenger sailing from Calcutta to London, Dundee, Glasgow. Agts—Gladstone Wyllie & Co, 4, Fairlie Place, Calcutta

**Ellerman's City and Hall Lines**—Sailing from Bombay and Karachi Port Okha and Jamnagar, Mormugao and Malabar Coast Port, Madras and Calcutta to Port Sudan, Port Said, Barcelona, Plymouth, Dundee, London, Liverpool, Manchester and Glasgow, Agts—Killick, Nixon & Co, Home Street, Bombay, Forbes, Forbes Campbell & Co, Ltd, Karachi, Killick, Nixon & Co's Agency, Port Okha; Clarke Smith & Chawda, Ltd, Jamnagar, Killick, Nixon & Co's Agency, Mormugao, Aspinwall & Co, Ltd, Mangalore, Tellicherry, Calicut, Cochin, Alleppey; Best & Co, Madras; Gladstone Wyllie & Co, Calcutta.

**Harrison Line**—Direct service to London, Liverpool, Manchester, Birkenhead and Bristol Channel Ports Take cargo on through Bills of Lading No passengers carried Agts—Hoare, Miller & Co, Ltd, 5, Fairlie Place, Calcutta.

**India-Natal Line**—Sailing from Calcutta, Madras and Colombo to Madagascar, Mozambique, Beira, Lourenco Marques, Durban, East London, Port Elizabeth, Mossel Bay, Capetown Agts—Anderson Wright & Co, W Wellesley Place, Calcutta, Parry & Co, Ltd, Madras; Delmege Forsyth & Co, Ltd, Colombo.

**Indian African Line (The Bank Line Ltd.)**—Direct services from Calcutta and Colombo to Mombasa, Zanzibar, Beira, Lourenco Marques, Durban, East London, Port Elizabeth, Mossel Bay and Cape Town Agents—Grahams Trading Co. (India), Ltd, 6, Lyons Range, Calcutta

**Isthmian Steamship Lines**—For Boston, New York, Philadelphia, and Baltimore Agents—The Angus Co, Ltd, 3, Clive Row, Calcutta

**Mogul Line Ltd.**—Sailings from Bombay and Calcutta to the Persian Gulf and Red Sea Ports Managing Agents—Turner, Morrison & Co, Ltd 16, Bank Street, Bombay Agts—Turner Morrison & Co, Ltd, Calcutta; Grahams Trading Co (India), Ltd, Karachi.

**CLERK'S MANUAL**—A comprehensive manual for the guidance of Clerks. Re. 1/4. Industry Book Dept., Shambazar, Calcutta

**Orient Line**—Have occasional sailings from Colombo to London or a U K port. Agts.—Bunny & Co (Madras) Ltd, Madras

**River Plate**—Bank, Harrison, Clan, Ellerman Joint service from Calcutta to Buenos Ayres, Montevideo and Rosario via Rio de Janeiro and Santos Joint Agents. Turner Morrison & Co, Ltd, and Hoare Miller & Co, Ltd, Calcutta.

**United-States-India Line** (Kerr Steamship Co Inc)—Serving Indian ports from United States Gulf and Atlantic Ports. Agents. Clegg, Cruickshank & Co, Ltd, 9, Clive Street, Calcutta

**Miscellaneous**—The other lines include —

**Ellerman's Wilson Line**—Agents: James Finlay & Co, Ltd, P. O. Box 209, Calcutta.

**Houston Line**—Agents. James Finlay & Co, Ltd, P O Box 209, Calcutta.

### TONNAGE SCHEDULE.

As a general rule the freight rates are usually based upon the cargo ton by weight or equally 2,240 lbs, or by measurement of 40 cubic feet Articles are sometimes quoted according to the packing. Goods packed in cases are charged per ton of 40 cubic feet Bag cargo pays ton of various hundredweights according to the weight of the articles in comparison with the size, i.e., the space it will occupy.

Calcutta.	per ton of		per ton of
Aniseed in bags	8 cwt.	Jute	50 c ft.
Barley	20 cwt	Kapok	50 c ft.
Beeswax	20 cwt	Lac in bags	16 cwt.
Betelnut	20 cwt.	" in cases	50 c ft.
Bonemeal	20 cwt.	Lac-Dye, in cases	50 c ft.
Borax	20 cwt.	Leather	50 c ft.
Bran	14 cwt	Lentils	20 cwt.
Bristles	50 c ft	Linseed	20 cwt.
Cardamom in robbins	8 cwt.	Manganese	20 cwt.
" in boxes	50 c ft.	Mica	20 cwt.
Cassia, in boxes	12 cwt.	Mohua seed	20 cwt.
Chasam	50 c ft.	Molasses	20 cwt.
Chiretta in bundles	50 c ft.	Mustard seed	20 cwt.
Castor seed	15 cwt.	Myrobalans	20 cwt.
Chillies	8 cwt	Nux Vomica,	
Cloves in bags	8 cwt	Cuttack quality	16 cwt.
Coal & Coke	20 cwt.	Oats	16 cwt.
Coir in dholls	10 cwt	Oils in casks	50 c ft.
Coriander seed	12 cwt	Oil cake	20 cwt.
Corundum	20 cwt.	Paddy	16 cwt.
Cumin seed	8 cwt.	Peas	20 cwt.
Dates, Wet	20 cwt	Pepper, long	12 cwt.
" Dry	16 cwt.	" black	14 cwt.
Dhal	20 cwt.	Pig Iron	20 cwt.
Fibres, all sorts	50 c ft	Poppy seed	20 cwt.
Garlic and Onion	12 cwt	Rape seed	20 cwt.
Ginger	16 cwt.	Rice	20 cwt.
Gunny	20 cwt	Rope in coils or bundles	50 c ft.
Hides in bales	30 c ft.	Salt	20 cwt.
Hides, salted or		Saltpetre	20 cwt.
arsenicated	14 cwt.	Shellac	50 c ft.
Indigo	50 c ft	Silk in cases or bales	50 c ft.
		Skins, in cases	20 cwt.

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# 102 INDUSTRY YEAR BOOK & DIRECTORY, 1943.

	per ton of		per ton of
Skins in bales	50 cwt.	Rape seed	15 cwt.
Soap in bags	15 cwt.	Rice in bags	18 cwt.
Sugar	20 cwt.	Sandalwood and Sappan	
Tamarind in cases	20 cwt.	wood	9 cwt.
Tea	50 c ft.	Salt	28 mds.
Timber	50 c ft.	Sesamum	14 cwt.
Tobacco in bales	50 c ft.	Silk in bales	8 cwt.
Turmeric	16 cwt.	Senna in bags	5 cwt.
Wax	200 cwt.	Sugar in double bags	19 cwt.
Wheat	20 cwt.	Talc	16 cwt.
Wool	50 c ft.	Tea, in chests	40 c ft.
<b>Bombay.</b>		Til	15 cwt.
Alum in bags	16 cwt.	Tamarind	15 cwt.
Apricot	13 cwt.	Tobacco in bales	40 c ft.
Arrowroot in casks	40 c ft.	Turmeric in bags	11 cwt.
Assafoetida, in cases	40 c. ft.	Wheat	18 cwt.
Bajra in bags	18 cwt.	Wool in screwed bales	40 c ft.
Barley in bags	16 cwt.	<b>Madras.</b>	
Beeswax in cases	40 c ft.	Aloes in bags	20 cwt.
Betelnuts in bags	13 cwt.	" in cases	50 c ft.
Bonemeal	20 cwt.	Alum	20 cwt.
Bran, in bags pressed	10 cwt.	Arrowroot in casks	50 c ft.
" in bags unpressed	9 cwt.	Barks in bags and	
Bullion	ad valorem	bundles	8 cwt.
Cassia	40 c ft.	Beeswax in bags	20 cwt.
Coffee	40 c ft.	Betelnut	18 cwt.
Coir in bales	40 c ft.	Bone Meal	20 cwt.
Copra in robbins	8 cwt.	Borax	20 cwt.
" cut in bags	10 cwt.	Brimstone	20 cwt.
Cotton	40 c ft.	Cardamoms	10 cwt.
Cotton seed	13 cwt.	Cardamom in box	50 c. ft.
Cutch	13 cwt.	Castor seed	20 cwt.
Dhal	17 cwt.	Chillies in bags	12 cwt.
Fenugreek	17 cwt.	" in robbins	14 cwt.
Flour in bags	18 cwt.	Cigar	50 c ft.
Galls in bags	13 cwt.	Cloves in bags	8 cwt.
Galls in cases	40 c ft.	Cloves in chests	50 c ft.
Groundnut, shelled	14 cwt.	Coal	20 cwt.
" unshelled	6 cwt.	Cochineal	50 c ft.
Gums in cases	40 c ft.	Coffee	18 cwt.
Hides & Skins	40 c ft.	Coir	50 c ft.
Indigo	40 c ft.	Copra	12 cwt.
Jowar	17 cwt.	Cotton in bales	50 c ft.
Linseed	16 cwt.	Cutch in bags	17 cwt.
Mother of pearls in		Fibres in bales	50 c ft.
tins or cases	40 c ft.	" in bundles	10 cwt.
" in bags	16 cwt.	Garlic	12 cwt.
Myrobalans	14 cwt.	Ginger in bags	12 cwt.
" crushed	11 cwt.	Groundnut (shelled)	20 cwt.
Niger seed	14 cwt.	Groundnut (unshelled)	20 cwt.
Nux Vomica in cases	40 c ft.	Hides	50 c ft.
Oil in casks	40 c ft.	Indigo	50 c ft.
Oil cakes	15 to 16 cwt.	Lac	16 cwt.
Paddy in bags	13 cwt.	Linseed	20 cwt.
Peas	17 cwt.	Leather in bales	50 c ft.
Pepper in bags	13 cwt.	Magnesite	20 cwt.
		Metals	20 cwt.

**COMPLETE TAILORING** contains the latest information on making of fashionable garments. Rs. 3/8. Industry Book Dept., Shambazar, Cal.

	per ton of		per ton of
Mica Talc & Splittings		Cinnamon in casks	40 c ft.
in cases	50 c ft.	Clove in casks	40 c ft.
Mica Waste in bags	20 cwt	Coir in bales	40 c ft.
Molasses	20 cwt	Coal	20 cwt
Munjeet	50 c ft	Copra in fobbins	8 cwt
Mustard seed	20 cwt	Cotton in bales	40 c ft
Myrobalan	20 cwt.	Cotton seed	13 cwt.
Niger seed	20 cwt.	Cutch in bags	13 cwt.
Nuxvomica in bags	20 cwt.	Dates, wet	16 cwt
Oils in casks	20 cwt	" dry	13 cwt
Ores in bags	20 cwt	Dhal	17 cwt.
Paddy in bags	20 cwt	Fennel seed	10 cwt.
Palmyra fibre in bales	50 c ft	Fenugreek	17 cwt.
Peas	20 cwt	Flour	18 cwt
Pepper in bags	16 cwt	Galls	13 cwt.
Poonac	20 cwt	Ginger in bags	10 cwt
Poppy seed	20 cwt	Gram	17 cwt
Rape seed	20 cwt.	Groundnuts, shelled	13 cwt.
Redwood for dunnage	20 cwt	Hides and skins	40 c ft
Rice in bags	20 cwt.	Indigo	40 c ft.
Rope in coils	50 c ft	Jaggery	18 cwt.
Sago in casks	50 c ft	Jowar	18 cwt.
Salt	16 cwt	Mustard seed	16 cwt.
Saltpetre	20 cwt	Myrobalans	13 cwt.
Sesamum	20 cwt	Niger seed	14 cwt
Shells, rough in bags	20 cwt	Nux vomica	13 cwt
Skins, tanned	50 c ft	Oil in cases	40 c ft.
" dry	50 c ft.	Oil cakes in bags	16 cwt.
" wet salted in		Ores in bags	13 cwt.
casks	50 c ft	Pepper	13 cwt.
Sugar including		Pimento	12 cwt
Jaggery in bags	20 cwt	Plumbago	16 cwt
Tamarind in cases		Poppyseed in double bags	13 cwt
or casks	20 cwt	Rhubarb	40 c ft.
Tapioca	50 c ft	Rice	18 cwt.
Tea in chests	20 cwt.	Salt	28 Indian mds of
or 50 c ft			82 2/7 lbs
Til seed or Gingelly	20 cwt	Sesamum	15 cwt.
Timber	50 c ft	Silk in bales	8 cwt.
Tobacco in bales	50 c ft.	Skins, tanned in pressed	
Turmeric in bags	16 cwt	bales	40 c ft.
Wool in bales	50 c ft	Sugar	19 cwt.
<b>Karachi.</b>		Talc	16 cwt.
Aloes in keg	40 c ft	Tamarind	15 cwt.
Alum in bags	16 c ft.	Til	50 cwt.
Asafoetida	40 c ft.	Tobacco in bales	40 c ft.
Bajra in bags	18 cwt	Turmeric	11 cwt.
Barley in bags	15 cwt	Wheat	18 cwt.
Beeswax in bags	40 c ft.	Wool in screwed bales	40 c ft.
Betelnuts in bags	13 cwt	<b>Chittagong.</b>	
Bonemeal	20 cwt	Bulk oil	280 gallons.
Borax in bags	16 cwt	Oil in drum	2,240 lbs
Brin in bags pressed	10 cwt.	Timber	50 c ft.
" " unpressed	9 cwt	Soorkey	20 cwt. or 60 c ft.
Canes in bundles	13 cwt.	Fowls	100 to a ton.
Cardamoms in bundles	40 c ft.	Coconuts	2,635 to a ton
Castor seed	14 cwt.		or 20 cwt.

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## PORT CHARGES.

### PORT OF CALCUTTA.

**Shipping Charges.**—Coal, including bunker coal As  $\frac{1}{8}$ - per ton, Cotton, cotton yarn waste, hemp, and all fibres in bales other than jute As  $\frac{1}{2}$ - per bale, Grain and seeds excluding rice As  $\frac{1}{8}$ - per ton, Gunnes As  $\frac{1}{12}$ - per ton, Hides and skins As  $\frac{1}{6}$  per cwt, Horse-boxes, loaded or empty Rs 4/- each, Jute in bales As  $\frac{1}{2}$  per bale, Manganese ore and all ores shipped in bulk As  $\frac{1}{8}$ - per ton, Molasses in bulk (as wharfage) As  $\frac{1}{2}$ - per ton, Motor cars or aeroplanes not in cases Rs 10/- per car or aeroplane, Sheep, goats and calves As  $\frac{1}{2}$ - per animal, All other animals not in cases Rs 2/- per animal, Ship's life boats, portable galleys and portable latrines Rs 4/- each, Sugar As  $\frac{1}{8}$ - per ton or part of a ton, Tea As  $\frac{1}{1}$ - per 100 lbs nett or part thereof All other goods not being heavy lifts on which freight is charged by weight  $\frac{1}{12}$ - per ton or part of a ton, Heavy lifts Rs 7/- per ton or part of a ton, All other goods not being heavy lifts, on which sea freight is charged by measurement and of which no single package exceeds 100 cubic feet, with a minimum charge of 1 anna per package,  $\frac{1}{5}$  p per cubic foot, Packages measuring more than 100 cubic feet and less than 200 cubic feet As  $\frac{1}{16}$  per cubic foot, Packages measuring more than 200 cubic feet As  $\frac{1}{16}$  per cubic foot

**Rent.**—On Imports—Goods are rent-free for three clear working days after the date of landing Cotton piece-goods and all kinds of cotton twist and yarn  $\frac{1}{6}$  per bale or case per day, Horse-boxes Re  $\frac{1}{4}$ - per box per day, Motor cars and aeroplanes not in cases As  $\frac{1}{8}$ - per car or aeroplane per day, Ship's life boats, portable galleys and portable latrines As  $\frac{1}{6}$ - each per day, Sugar, rice, grain, sago flour, taploca flour and seeds As  $\frac{1}{2}$ - for the first four weeks from the date of landing per ton or part of a ton per week or part of a week, As  $\frac{1}{4}$ - for the fifth, sixth, seventh and eighth weeks per ton or part of a ton per week or part of a week, As  $\frac{1}{8}$ - thereafter, per ton which the landing charge is levied by weight, (a) Goods not being heavy lifts As  $\frac{1}{1}$ - per ton or part of a ton per day, (b) Heavy lifts As  $\frac{1}{3}$ - per ton or part of a ton per day, On all other goods on which the landing charge is levied by measurement As  $\frac{1}{1}$ - per 40 cubic feet or part thereof per day

On Exports per ton or part thereof per month or part of a month on the maximum stock held during the month —All ores in bulk, scrap iron, scrap tin and pig iron (a) if stored in the open  $\frac{1}{6}$ , (b) if stored under cover at exporter's request  $\frac{1}{1}$ -. Coal if dumped  $\frac{1}{1}$ - per ton or part thereof per month or part of a month on the maximum stock held during the month, Cotton, cotton yarn waste, hemp, jute and all fibres in bales  $\frac{1}{1}$ - per bale per week or part of a week, Ship's life boats, portable galleys and portable latrines  $\frac{1}{6}$ - each per day Tea  $\frac{1}{3}$  per 100 lbs nett or part thereof per week or part of a week, Grains, pulses, seeds, gram, dhal, lentils, peas, wheat, oil cake yellow ochre, myrabollams and suagr, Per ton or part thereof per week  $\frac{1}{7}$ -. (c) 5th and subsequent weeks  $\frac{1}{12}$ -. All other goods on which the shipping charge is levied by weight  $\frac{1}{3}$ - per ton or part thereof per week or part of a week, All other goods on which the shipping charge is levied by measurement  $\frac{1}{14}$  per cubic foot per week per week or part of a week All other goods 25 per cent of the shipping charge

FOR NEAT PRINTING WRITE TO  
INDUSTRY PRESS, SHAMBAZAR, CALCUTTA.

**Warehouse charges.**—On duty paid or on non-duty paid imported goods stored in Fairlie Warehouse or any extension thereof at the Calcutta Jetties, the following rates of rent are levied:—

Cotton piece-goods and all kinds of cotton twist and yarn As 12 per package, Cement in casks or drums As 4 per cask or drum Motor cars or trucks (packed or unpacked) or assembled parts of motor cars or trucks in cases Rs. 15 per car or truck All other goods—(1) If the landing charge is levied by weight Re. 1 per ton or part of a ton. (11) If the landing charge is levied by measurement -/-8p per c ft.

Duty paid goods stored in the Dock Warehouse. Half the rates given above.

**Freight Charges.**—On goods, other than those referred to in paragraphs (b), (c) and (d) below, carried in Commissioners' wagons at owners' risk between any point in the Dock area and any point outside this area or between any point in the Jetty area and any point outside this area, a charge is made of 12 annas per ton or part of a ton or Rs 5 per axle at the Commissioners' option. The Commissioners' risk rate is Re 1 per ton or part of a ton or Rs. 6 per axle at the Commissioners' option.

**Surcharge on River Dues.**—A surcharge of 12½ per cent. on the river due is levied on all imports and exports other than grain, wheat and other cereals, pulses, seeds, rice, flour, atta, bran, sugar, cement packed in bags, manganese ore, chrome ore, iron ore, peroxide ore, limestone, export tea, molasses in bulk, and export coal including coke in respect of which a certificate of shipment has been granted by the Coal Grading Board

**Ad Valorem and Fixed Toll.**—An ad valorem toll at the rate of four annas per Rs 100 of value is levied on all goods Fixed toll is imposed on the following articles:—

Manganese Ore: 1 anna per ton or part of a ton Salt: 1 anna per ton or part of a ton Timber. 6 annas per ton of 50 c ft or part thereof Wheat, Rice, Seeds, including groundnut kernels, pulses, gram and other cereals, flour, bran and atta 4 annas per ton or part of a ton. Sugar 4 annas per ton or part of a ton Baled jute: 1½ annas per bale Gunnies 12 annas per ton or part of a ton Tea: 12 annas per ton nett or part of a ton Hides and Skins 16 annas per ton or part of a ton. Cotton piece-goods and all kinds of cotton twist and yarns 4 annas per bale Bunker coal. 1½ annas per ton or part of a ton. Shipment coal ½ anna per ton or part of a ton Scrap iron: 2 annas per ton or part of a ton. Mineral oil ¼ pie per gallon

**Differential Toll.**—A differential toll of 12 annas per ton or part of a ton on goods on which the landing charge is levied by weight and three-fifths of the landing charge on all other goods is levied

**Landing Charges.**—Cotton piece-goods and all kinds of cotton twist and yarns As -/4/- per bale. Sugar, rice, grain, sago flour, tapioca flour, seeds including groundnut kernels and cement packed in bags Re. 1/- per ton Limestone As. -/12/- per ton, Gold, Silver and Jewellery As -/4/- per package; Animals not in cages Rs. 2/- each, Horse boxes whether loaded or empty Rs. 4/- each, Motor cars and aeroplanes not in cases Rs. 10/- per car, Ship's life boats, portable galleys and portable latrines Rs 4/- each; Goods charged on weight basis Re. 1-4 per ton. Goods charged on measurement basis Re. 1/- per 40 c ft.

**Petroleum & Palm Oil.**—Dangerous petroleum 2½ pies per gallon. Palm oil and non-dangerous petroleum and its products 15 annas per ton of 280 gallons.

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INDUSTRY PRESS, SHAMBAZAR, CALCUTTA.

**Stevedoring:** Cases—4 pies per case, Barrels or drums—2 annas per barrel or drum.

Handling Barrels or drums—If the distance carried does not exceed 500 feet—3 annas per barrel or drum. If the distance carried exceeds 500 feet, for every 500 feet or part thereof in excess of the first 500 feet—an extra 1 anna per barrel or drum.

Stevedoring or handling at night—50 per cent extra.

**Port Dues**—Port dues are levied at the following rates on nett registered tonnage.—

Dhoomes and country vessels employed in coasting trade or in trade exclusively between India and Burma payable not more than once in 60 days—2 annas per ton.

Vessels entering in ballast and not carrying passengers—3 annas per ton.

Vessels entering in ballast and not carrying passengers, and leaving in ballast and not carrying passengers 1 anna 6 pies per ton.

On sea-going vessels of 20 tons and upwards viz —

(i) Mail steamers, coasting vessels and vessels engaged in trade exclusively between Burma and India, payable not more than once in 60 days or (ii) other sea-going vessels payable on each entry into the Port 4 annas per ton.

Tugs and river steamers, payable once between the 1st January and the 30th June and once between the 1st July and the 31st December in each year 4 annas per ton.

#### PORT OF BOMBAY.

**Port Dues**—Port dues are levied on vessels entering the Port at the rate of two annas per Net Register ton once in each month. A vessel that enters the Port but does not discharge or take in any cargo or passengers (with the exception of such unshipment and re-shipment of cargo as may be necessary for purposes of repair) shall be charged with a port due at half the rate with which such vessel would otherwise be chargeable.

**Towage Fees**—For towing or assisting a vessel through the Docks' Channels under 1,500 tons net register Rs 115, Of 1,500 tons net register and over Rs 150. For towing or assisting a vessel from Dock to any berth or mooring in the Harbour or vice versa, or from one berth to another in the stream under 1,500 tons net register Rs 150; Of 1,500 tons net register and over Rs 225. For towing from Dock or stream to Sund Rock or vice versa under 1,500 tons net register Rs 225, Of 1,500 tons net register and over Rs 300. For towing from Dock or stream to the Bombay Floating Light or vice versa under 1,500 tons net register Rs 300, Of 1,500 tons net register and over Rs 375.

**Hire of Tank Barges**—Tank Barge for discharge of ballast water containing oil, in terms of clause 53 of the Bombay Port Rules, per day of 24 hours or part thereof, including Sundays and Holidays Rs. 50.

**Salvage Fees**—On articles salvaged within the limits of the Port and involving no risk of life in salvaging a charge of 12½ per cent on the value of the articles in addition to the actual cost of recovery will be charged. Ten per cent of the charge will be paid to salvors.

**Water Fees**—Water is supplied to shipping in the stream by water boats at Rs 2-4 per ton or Rs. 9 per 1,000 gallons.

Water is supplied to shipping alongside Ballard Pier and Harbour Wall berths by water boats at Re 1-12 per ton or Rs 7 per 1,000 gallons.

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Do not hanker after service when you can be your own master. HOME INDUSTRIES explains, Re. 1/12. Industry Book Dept, Calcutta.

**License Fees for Water Conveyance**—Mechanically-propelled vessels Rs 5, Bunder Boats, etc Rs 2, Jolly Boats Dingies, Mutchwas, Prows, etc. Re 1, Tonies, Hodies, Pagars, Sumbbooks, etc, As. 8; Duplicate License : half the above fee, Copy of Rules As 4

**Sand and Mud Fees**—Sand and Mud from Back Bay are charged for at the rate of annas 3 per cart—a cart to contain 30 baskets or 15 cwts

**Rents**—All goods will be allowed storage in Docks, free of rent, for 5 days On the expiration of the "free days" an extra fee or charge calculated at the rate of half wharfage will be levied upon all goods until delivery in effected. On the expiration of 30 days from date of landing of all goods (including iron and steel) two extra fees will be levied for every succeeding two days including Sundays and all Holidays or part thereof

**Ground Rent Charges**—Ground rent charges in Docks Storage sheds and yards other than Docks Transit Sheds or yards, by special arrangement.—(a) In sheds per 500 square feet per mensem, Rs 75. (b) In the open yards and open sheds at owner's risk per 500 square feet per mensem, Rs 45.

**Docks Dues on Vessels**—On steam and other mechanically-propelled and square-rigged vessels.—For every vessel under 1,500 tons berthed inside the Docks or at the East Harbour Wall of the Docks. A charge of 3 pies per ton of net registered tonnage for each day or part of a day with a minimum charge of Rs 60; For every vessel of 1,500 tons and upwards A charge of 4½ pies per ton of net registered tonnage for each day or part of a day with a minimum of Rs 115.

On every boat, barge and country craft (not square-rigged) entering Docks—A charge of Re, 1-8-0 per day or part of a day

**Night, Holiday and Sunday Work Charges**—Per night from 7-30 p.m to 3-30 a.m or midnight to 6 a.m Rs 105 Per half night from 7-30 p.m. to mid-night or midnight to 3-30 a.m Rs 53. On holidays Rs 75/- per day Rs 38/- per half day At any time between 6 a.m on Sunday and 6 a.m on Monday Rs 300.

**Charges for Port Trust labour supplied at night in respect of every vessel permitted to work, viz** —Annas 9 per labourer per night from 7-30 p.m to 3-30 a.m. or midnight to 6 a.m. Annas 5 per labourer per half night from 7-30 p.m to midnight or midnight to 3-30 a.m

**Ordinary cargo cranes**—30 35 cwt and 5 and 6 tons Hydraulic cranes.—Per day from 8 a.m to 6 p.m Rs 18 each. Per half day from 8 a.m to 12-30 p.m or 1-30 p.m to 6 p.m. Rs. 12 each. Per night from 7-30 p.m to 3-30 a.m or midnight to 6 a.m Rs 18 each. Per half night from 7-30 p.m to midnight or mid-night to 3-30 a.m. Rs 12 each

For cranes requisitioned and supplied for vessels working the whole night till 6 a.m. with the special permission of the Docks Manager a charge of Rs 12 per crane in respect of the period, 3-30 a.m. to 6 a.m, will be levied in addition to the above rates

**Overside Charges**—Charges in respect of cargo discharged or shipped overside in Docks —Import goods delivered from vessels in Docks into lighters alongside for removal out of Docks or Export goods taken on board vessels in Docks from lighters alongside ½ wharfage

Goods liable to wharfage on a weight or an ad valorem basis will be charged wharfage at Rs 0-8-0 per package, or if packed in bags at Rs 0-3-0 per bag when weight or value cannot be ascertained

**Weighment Charges**—Goods weighed on Port Trust scales when labour is not supplied, including cost of Weighment Certificate of total weight, if required. Rs 4-8-0 per consignment per day, including attendance of clerk. Goods weighed on Port Trust or private scales,

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when labour is not supplied and Weighment Certificate is not required.  
Goods weighed on Docks Weigh Bridges (1) For 16 tons or under  
Re 1-8, (2) For every additional ton or part of a ton Re 0-1-0 per  
ton.

### PORT OF MADRAS. Charges.

(a) On ships—**Port Dues.** Nine pies per net registered ton  
**Mooring Fees,** Rs 90 the first 24 hours and Rs 30 each succeeding  
24 hours or part thereof No extra charge for quay berths.  
**Pilotage Fees** (in and out inclusive) Eight pies per registered ton  
plus Rs. 30 for pilotage between 6 p.m. and 6 a.m.  
**Overtime.** Work during recess hours day or night.—Rs 10 per  
hour  
**Work on Sundays and Chamber of Commerce Holidays.**—Rs 50 per  
day and Rs 10 an hour at night.  
Half the above charges for coal and coke in bulk  
**Craneage.** For cranes up to 5 tons one rupee an hour by day and  
Rs 2-8 by night  
For cranes over 5 tons, rupees ten per hour, day or night  
**Water.** Rs 2-8 per 500 gallons and proportionately  
Water by barge Rs 9-8 per 1000 gallons  
(b) On cargoes—**Normal Harbour Dues** on certain important com-  
modities only are given The official charges are in the Trust's Scale  
of Rates

Coal	Per ton	8 annas
Petrol	" in bulk	Rs 1-8 to 1-12.
Oil	" in bulk	Rs 4-4
Grain	"	Rs 2-0
Groundnuts	"	Rs. 1-8
Cotton (raw)	"	Rs 2-0
Tobacco (raw).	"	Rs 2-0
Sugar	"	Rs 2-0
Cement.	"	Rs 2-8
Wattle Bark	"	Rs 2-0
Motor cars	Each	Rs 12-8.
Timber	Per ton	Rs 1-8
Paper	"	Rs 2-8
Hides and Skins	"	Rs 2-0 to 3-4
Chemical Manure	"	Rs 2-0

**Quay Dues.** Per ton 8 annas. (This charge covers use of the  
Trust's quays and use of the Trust's lighters for any cargo that has to  
be landed from moorings)

**Craneage.** Cargo up to one ton per package paying the above quay  
dues gets craneage free This covers all ordinary general cargoes.  
Other cargo pays according to weight from 4 annas up to Rs 6 per ton  
per hoist

**Railway Charge** (on goods received or despatched by rail) 6 annas  
9 pies per ton if handled by owner, 9 annas per ton if handled by the  
Trust

#### Rented Sheds and Ground:—

For short periods open space Rs 4 per 1000 sq ft per month  
For long periods open space Rs 200 per acre per month  
Covered space for short periods Rs 5 per 100 sq ft per month.  
For long periods Rs 4-8 per 100 sq ft per month

### PORT OF KARACHI.

Pilotage fees shall be charged on Merchant vessels, Indian Govern-  
ment vessels or Hired Transports, according to their registered net

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tonnage at the following rates—300 Tons and under Fair Season Rs 35; Monsoon Season Rs 52½. An increase of Rs. 4 for every 100 tons or part of 100 tons above this tonnage will be levied.

**Port Dues**—On Ocean-going vessels, two annas per registered ton or fraction of a ton. On Country craft of 10 tons and upwards (except fishing boats) one anna per registered ton or fraction of a ton. A vessel entering the Port in ballast and not carrying passengers will be charged Port dues at three-fourths rates. Vessels entering the Port and taking in only provisions, water, bunker coal or liquid fuel for their own consumption, will be charged Port dues at half rates.

**Haulage and Towage and movements of vessels within the Port:** From 1st May to 30th September, both days inclusive every vessel berthed at the East Wharves 1 to 17, Return Wharf and West Wharves or at the Bulk Oil Pier will be charged a towage fee of Rs 75 for the services of a tug, whether used or not when proceeding on her outward voyage.

Moving a vessel from one berth to another, or swinging her Rs 25.

**Charges for use of Wharves, Quays, etc by vessels alongside.** A surcharge of 33 1/3 per cent. is levied on the charges. One rupee and eight annas per day or part thereof per 100 tons or fraction thereof on registered tonnage subject to a minimum charge of Rs 40 for the period of stay of every vessel under 1,500 tons and maximum charge of Rs 40 per day or part of a day for every vessel of 1,500 tons and over.

**Additional charges payable by vessels using the pipe lines for bunkering or discharging petroleum liquid fuel**—Bunkering vessels—Rs 10 per hour or part of an hour from the time of connection to that of disconnection of pipes. Discharging vessels—Rs 50 for every 24 hours or part thereof from the time of arrival alongside the wharf till completion of discharge. The surcharge does not apply in this case.

**Mooring Fees.**—Charges for the use of moorings in the stream fixed or swinging Re 1 per day or part thereof per 100 tons net register or part thereof subject to a minimum charge of—(a) Rs 40 for the period of stay of every vessel under 1,500 tons (b) Rs 20 and a maximum charge of Rs 40, per day or part of a day for every vessel of 1,500 tons and over.

**Charges for Supplying Water.**—To shipping in the stream per 1,000 gallons Rs 7-8. To shipping alongside ship wharves per 1,000 gallons Rs 4-8.

**Weightment of goods** will be charged for at the rate of 3 annas per ton. Weight notes corresponding to warrants will be furnished, when required, at a charge of 4 annas for each.

**Sand and Mud Fees.**—The charge for granting permits to remove sand for ballast, etc, from the foreshores is annas four per ton, of sand or mud removed. The maximum rate for the right of removing and delivering sand alongside vessels from specified places in the harbour is Re 1 per ton, the minimum charge for sand being Rs 3.

### PORT OF CHITTAGONG.

**Port Dues:**—Sea going vessels of ten tons and upwards, not being ballam boats (i) Mail steamers, coasting vessels and vessels engaged in trade exclusively between India and Burma. Four annas and six pies. The due is payable once in sixty days. (ii) Other sea-going vessels: Four annas and six pies. The due is payable on each entry into the Port. Ballam boats—One anna—The due is payable on each entry into the Port. (iii) Tug steamers and river steamers—Four annas and six

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pies—The due is payable once between the 1st January and the 30th June and once between the 1st July and the 31st December in each year

A vessel entering the port of Chittagong in ballast and not carrying passengers shall be charged with a port-due at three-fourths of the rate with which she would otherwise be chargeable, and (2) that when a vessel enters the port of Chittagong, but does not discharge or take in any cargo or passengers therein (with the exception of such unshipment and reshipment as may be necessary for purposes of repair), she shall be charged with a port-due at half the rate with which she would otherwise be chargeable

**Hospital Port Dues**—For all vessels (including those mentioned in the next item, if the compound rate is not levied)—At the rate of two pies per ton for each trip For vessels calling at fixed intervals and for regular line steamers trading with the Port of Chittagong—At the compound rate of four pies per ton payable once a year

**Pilotage Charges**—Not exceeding 10 feet Rs 67-8 Exceeding 10 ft but not exceeding 11 ft Rs 81/- and so on For native coasters not exceeding 500 tons burthen From the Outer Bar to Chittagong or viceversa. Draught under 8 feet Rs 8, Under 9 ft Rs 9, Under 10 ft Rs 10, Under 11 ft Rs 11, Under 12 ft Rs 12, Under 13 ft Rs 14, Under 14 ft Rs 15, Under 15 ft Rs 18, Over 15 ft Rs 20

**River Dues**—The Port of Chittagong levies a consolidated river due of Re 1 per ton on all goods landed from, or shipped into any sea-going vessel lying or being within the limits of the said Port (except bunker coal and fuel oil the rate of river due on which will be four annas per ton, and cargo coal and fuel oil the rate of the river due on which will be six annas per ton) whenever such goods shall or shall not be landed or shipped at any wharf, quay, stage, jetty or pier belonging to the Commissioners

Customs Duty on jute exported by sea from the Port of Chittagong to other ports whether beyond or within India (except raw jute exported to Calcutta) In the case of raw jute (including jute cuttings and rejections), two annas per bale of four hundred pounds, and

In the case of manufactured jute, twelve annas per ton of two thousand two hundred and forty pounds

**Towing Charges**—The charges for towing or for any other work to be done outside the Port limits shall be Rs 750 for a day or part of a day provided that the rate may be increased to any amount up to Rs 1,500 per day If the work required to be done is specially arduous, eg in case of stranding, etc

The charge for towing to or from the lower Port limits will be — For a vessel not exceeding 500 tons net registered tonnage, Rs 225; For a vessel 500 to 999 tons net registered tonnage, annas 8 per ton, For a vessel 1,000 to 1,999 tons net registered tonnage, annas 12 per ton, For a vessel 2,000 tons and over net registered tonnage, Rs 2,000. The charge for lightering a vessel lying at or near the Outer Bar will be Rs 350 per day or Rs 225 per half day

**Charges for occupying fixed moorings**—All vessels up to 999 tons gross Rs 10 per diem, all vessels from 1,000 to 2,999 tons gross Rs 24 per diem, all vessels above 2,999 tons gross Rs 30 per diem

**Transport charge** on vessel entering or leaving this Port, on each occasion Rs 10/-

**Water**—Rate for the supply of spring water For any quantity up to 1,000 gallons Rs 10, for 2,000 gallons Rs 20 for every 1,000 gallons or part thereof in excess of 2,000 gallons Rs 10

**Pyrotechnic Matches & Their Preparation** are dealt in "Safety Matches & Their Manufacture." Rs. 3/-. Industry Book Dept., Calcutta.

## SEASONS OF SHIPMENT.

**Bombay.**

Castor	February onwards.
Chillies	June onwards
Cotton	November onwards shipments heaviest from Jan to July
Cotton Seed	January to July
Fruits in Syrup	June to December.
Groundnut	November onwards
Linseed	February onwards
Myrobalan	December onwards
Poppy Seed	April onwards
Gingelly Seed	December to June.
Rapeseed	March onwards
Skins	Throughout the year
Rice	February onwards
Salt	Throughout the year
Wheat	April onwards
Tobacco	Throughout the year

**Calcutta.**

Coal	Throughout the year.
Chillies	June onwards
Cinnamon	June onwards
Eggs	Throughout the year.
Fruits	June to December
Gunnies	September to January
Hemp	October to January
Hides	January to June (mainly).
Jute	July to March
Linseed	April to August
Petroleum Oil	Throughout the year
Rice	February onwards
Shellac	September to April
Skins	Throughout the year
Tea	April to November
Tobacco	Throughout the year

**Cochin.**

Chillies	May onwards
Coconut oil	January to May (mainly)
Coffee	December to May.
Coir & Coir Mats, etc	Throughout the year.
Copra	January to May (mainly).
Ginger	December to May.
Lemongrass oil	June to May
Nux Vomica	Dec onwards
Pepper	November onwards

Poonac	January to May. (mainly).
Rubber	Throughout the year
Tea	Throughout the year.
Turmeric	February to May

**Cuddalore.**

Groundnut	November onwards.
Groundnut Oil	November onwards
Oilcake	November onwards.
Sugar	February to July.

**Karachi.**

Bajra	September to November.
Barley	March to July.
Bonemeal, etc.	Throughout the year.
Castor Seed	September to November.
Cotton	October to January.
Cotton Seed	October to January.
Gram	April to July.
Jowar	September to November.
Lentil	April to July.
Linseed	February to May.
Maize	December to March.
Peas	March to June.
Rapeseed	March to June
Rye	February to May.
Sesamum	October to January.
Toria	January to April
Wheat	May to August.
Wool	Throughout the year.

**Madras.**

Castor Seed	Throughout the year.
Chillies	May onwards.
Cigar	Throughout the year.
Coffee	Throughout the year.
Cotton	April to October.
Groundnut	November to June.
Rice	December onwards.
Hides, horns, indigo, jaggery, mica, redwood, spices, skins, are exported throughout the year.	

**Port Okha.**

Cotton	August to April.
Cotton Seed	August to April
Groundnut	August to April
Rapeseed	August to April.
Salt	Throughout the year.

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& Their Manufacture." Rs. 3/-. Industry Book Dept., Calcutta.

<b>Vizagapatam.</b>		Millet	April to October
Groundnut	Nov to March	Wool	January to May
Hemp	October to December	<b>Karikal.</b>	
Jaggery	January to June	Rice	January onwards
Jute	October to January	<b>Mahe.</b>	
Myrobalan	December to May	Coconuts	January-March
Gingelly	May to July	<b>Pondicherry.</b>	
"	October to December	Bonemeal	Throughout the year
Niger	December to February	Groundnut	January onwards
Rapeseed	March to May	Onions	Throughout the year
<b>Bedi Port.</b>		<b>Mormugao.</b>	
Castor	January to October	Cotton seed	January-August.
Cotton	April to July	Groundnut	January-June
Gram	April to October	Manganese ore	Throughout the year
Groundnut	January to May		
Lentils	April to October		

## SEASONS RELATING TO WEATHER, ETC.

### Arabian Sea.

Monsoons —S W Monsoon extends from May/June to September October (July and August are generally the worst months)

### Bay of Bengal.

Monsoons —S W Monsoon, May to October, N E Monsoon, November to April

Cyclones Cyclones occur at Monsoon changes, namely May and October, the latter being the most dangerous month

### Indian Ocean, South.

Cyclones —The Cyclone Season is most severe from November to May, the worst months being January, February and March

### Australia.

Cyclones Cyclones sometimes occur on the North East Coast of Australia between December and April

### China Seas.

Monsoons N E Monsoon, September/October to April

S W Monsoon, middle of April to middle of October

Typhoons The Typhoon months are May to November, August and September being the most dangerous

### Japan Sea.

Typhoons Typhoons are prevalent from July to October.

### Pacific Ocean.

Hurricanes In the North Pacific Hurricanes occur from July to October, sometimes November, and in the South Pacific from December to March, sometimes November and April

## SHIPS' EMERGENCY RATIONS ORDER.

According to a notification dated the 4th July, 1942 no ship solely engaged in the coasting trade shall proceed to sea without having on board the ship emergency rations for every person carried on board the ship The scale of emergency rations per person is rice 7 lbs, ghee 14 oz, dal 1 lb 12 oz, sugar 1 lb, tea 4 oz, salt 3 oz

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# THE MONEY MARKET

## INDIAN MONETARY SYSTEM.

THE MOGHUL system of currency was distinguished by the large number of mints, scattered all over the country, from which coins were issued. The principal gold coin was called the S'hansah but twenty five other gold coins were also in circulation. The gold coins, however, were not so much in use as the silver ones. Of the latter the most important coin was the "Rupee" round in shape and weighing  $11\frac{1}{2}$  mashas (almost the same weight as that of our present 'rupee,' which is 12 mashas) This was first introduced in the reign of Sher Shah but was greatly improved by Akbar. Another silver coin, first issued by Akbar, was the Jalalah which had the same weight and impression as the rupee but was square in shape. Then there were seven other subsidiary coins, the smallest silver piece being the Suki which was  $\frac{1}{20}$  rupee. There were copper coins too in circulation, beginning with the Dam, forty of which went to the rupee. The smallest copper coin was the Damri ( $\frac{1}{8}$  dam). Besides these there were a large number of coins issued by the other independent chiefs. Even in the beginning of the nineteenth century four different rupees were current—the Murshidabad rupee of the nineteenth year of Shah Alam's reign, weighing  $179\frac{1}{2}$  grains (175.9 grains pure silver), which was known as the sikka rupee, the Surat rupee, containing 164.7 grains of pure silver, the Arcot rupee of 166.5 grains pure silver, when first coined at the mint of Fort St. George, and the Lucknow rupee of the Vizier of Oudh, containing 165.2 grains of pure silver when it was adopted for coinage at the Farukhabad mint. The sikka rupee was the principal standard of value. Besides these there were also various gold coins—the gold Mohur of Bengal, the old Bombay Mohur, the Bombay gold rupee, various pagodas of Madras (e.g., the Stal pagoda, the old pagoda and the Porto Novo pagoda) also the gold rupee, half-rupee and quarter rupee which took the place of Madras pagodas under a regulation of 1818.

In 1835 a uniform currency was established in the whole of India, when the Madras rupee, approximately equal in value to that of Bombay and Farukhabad, weighing 180 grains, out of which 165 grains were pure silver (i.e.,  $11\frac{1}{12}$ ths fine), was adopted as the standard for the whole of the Company's dominions in India. From the year 1862 the Government rupee, being exactly of the same weight and fineness, replaced the old East India Company's rupee as well as others which were in circulation.

The principal gold coin in British India was the gold Mohur which was exactly of the same weight and fineness as the silver rupee. Besides this, a double Mohur, a  $\frac{1}{2}$  Mohur and  $\frac{1}{4}$  Mohur were also supplied by the Mints of British India. These however ceased to circulate since 1806 when the Government of India laid down that silver should be the universal money of account in India.

The chief coin is the rupee weighing 180 grains Troy or 1 tola  $11\frac{1}{12}$  fine (i.e., 165 grains fine silver to 15 grains alloy). The next

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in value is the 8-anna piece or  $\frac{1}{2}$  rupee weighing 90 grains Troy silver 11/12 fine; 4-anna piece or  $\frac{1}{4}$  rupee and 2-anna piece or  $\frac{1}{8}$  rupee containing proportionate weights of silver of the same degree of fineness as the rupee. According to an amendments to the Indian Coinage Act, silver coins are now minted having the reduced fineness of one-half silver and one-half alloy. Token coins of cupro-nickel of the denomination of 1-anna, 2-anna and 4-anna are also in circulation. The bronze coins are 2-pice piece, 1-pice piece,  $\frac{1}{2}$ -pice piece and 1 pie. Silver 4-anna pieces are still found in circulation in the market.

The old sikka rupee, a rupee of account known as current rupee commonly adopted by the East India Company, and the Government rupee sometimes occur in the description of the history of the Money Market and may lead to confusion. A conversion table here follows --

100 Government rupees = 93 $\frac{1}{2}$  sikka rupees = 108 $\frac{1}{2}$  current rupees.

100 Sikka rupees = 106  $\frac{1}{2}$  Government rupees = 116 current rupees

100 current rupees = 91.95 Government rupees = 86.20 sikka rupees

#### BRITISH INDIAN MONETARY UNITS.

1 Pie		Marked P	per value
3 Pies	make 1 Pice	" PS	" "
4 Pice or 12 Pies	" 1 Anna	" A	" "
16 Annas	" 1 Rupee	" R	" "

The rupee and  $\frac{1}{2}$  rupee are legal tender in payment or on account. The other coins are legal tender for any sum not exceeding 1 rupee. Notes in denominations of 1, 5, 10, 50 and 100 are legal tender throughout British India but notes for 500, 1,000 and 10,000 had been at first legal tender in their respective circles, viz., Calcutta, Madras, Bombay, Lahore, Cawnpore and Karachi, but they are now encashable anywhere in the country.

Since the inauguration of the Reserve Bank of India in April 1935 the sole right of note issue has been given over to the Bank. The Reserve Bank issues bank notes of rupees 5, 10, 50, 100, 500, 1,000 and 10,000 in denomination and manages the old currency notes on a par with bank notes. Bank note of all denominations are legal tender in any place in British India. The Government of India have recently issued one-rupee notes.

#### EXCHANGE VALUE OF MONEYS.

The exchange value of the moneys on any particular date is determined in countries having different monetary units by the rate of exchange holding on that day. Indian newspapers publish daily quotations of foreign exchanges on such centres as London, New York, Paris, Japan, Java, Shanghai, Hongkong, Singapore and Germany. The mode of quoting the various rates will be seen below --

The exchange quotations appearing under the Foreign market columns of the Indian newspapers generally represent the number of standard coins that are equivalent to one sovereign. For example, London exchanges on New York, Sweden, etc., are given in their respective standard coins per pound sterling. But in some cases, e.g., Portugal, India, China, Japan, etc., the quotations are expressed the other way round i.e., in pence per monetary unit in circulation in these countries.

#### METHOD OF QUOTATION

Exchange is quoted in India on the following basis --

The London-New York cross rate is expressed in dollars per £ sterling.

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On London—T T. (Telegraphic Transfer) in shillings and pence per rupee.

" —O. D. (On Demand) in shillings and pence per rupee.

" —3 m-st (3 months' sight) in shillings and pence per rupee.

On America—in rupees per 100 dollars

**FOREIGN MONEYS WITH THEIR ENGLISH EQUIVALENTS.**

The lawful and other recognised means of making payments in circulation vary in different countries. The currencies of various countries with their English equivalents follow —

**Abyssinia.**—1 Menelik \$ (or Talar) = 16 Menelik Piastres = 32 Besa = 100 centimes. Maria Theresa dollars are coins. Par of Exchange 1 M \$ = 2s

**Aden and Perim.**—As British India

**Afghanistan.**—1 Afghani = 100 pals 20 Afghanis = 1 Amania.

**Albania.**—5 lek = 1 gold franc. Par of exchange £ 1 = 25 2½ gold francs

**Anglo-Egyptian Sudan.**—As Egypt

**Angola.**—80 Angolares = 100 Escudos 110 Angolares to £1 sterling.

**Arabia.**—Indian silver coins and the Maria Theresa silver dollar used.

Accounts kept in rupees

**Argentine Republic.**—Gold Peso of 100 centavos = 3s 11 58d \$ 11 45 paper = £ 1. Gold coins in circulation are equivalent to 2½ and 5

peso pieces, the latter being known as Argentino. Silver coins are 1 peso, 5, 10, 20 and 50 centavos

**Australia.**—As Great Britain

**Bermudas.**—As Great Britain

**Bolivia.**—Gold Boliviano of 100 centavos £ sterling and £ Peruvian are legal tender U S \$ is legal currency, £ = 13 33 Bolivianos

**Brazil.**—1,000 reis = 1 milreis (paper) = 5 899d.

**British East Africa.**—100 cents = 1 shilling (British).

**British Guiana.**—100 cents = 1 dollar = 4 sh 2d

**British North Borneo.**—Straits Settlements Currency 100 cents = 2s 4d.

**Canada (The Dominion of).**—100 cents = 1 dollar = 4s 1½d. Par of exchange 4 dollars 86½ cents to the £ sterling

**Ceylon.**—According to Ceylon Currency Act, a new rupee has been introduced. This is divided into 100 cents.

**Chile.**—1 gold peso = 100 centavos; 40 pesos = £1. Gold coin are 20, 50 and 100 pesos

**China.**—10 cash = 1 candareen, 10 candareen = 1 Mace; 10 Mace = 1 tael. The tael is not a count but a weight of silver, varying in different localities. The Haikwan tael is that adopted and used by the Maritime Customs for all its transactions. It is a book unit with theoretical value equal to Mex. \$ 1.50 or 3. Its foreign exchange value is fixed monthly by the Customs. Foreign exchange rates are quoted in Shanghai Tael. Kuping Tael is the Treasury unit for Government accounts, 100 Shanghai Taels = 89 775 Haikwan Taels; 100 Kuping Taels = 109 60 Shanghai Taels, 100 Haikwan Taels = 101 6424 Kuping Taels = 105 215 Tientsin Tael = 111 40 Shanghai Taels. Dollars. 10 cash = 1 cent, 100 cents = 1 dollar = 1s 7d. Foreign dollars are the principal currency of the Treaty Ports

**Colombia (Republic of).**—100 centavos = 1 gold peso, 5 pesos = £1. Gold coins are 2½ and 5 pesos.

**Cuba.**—As U S A. 1 Gold Peso of 15046 grammes = 1 U. S A. dollar = 100 cents = 4/2d. Cuban coinage maintains the same values as

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**American currency**, which is legal tender everywhere in the Republic  
**Ecuador (Republic of)**.—Sucres of 100 centavos Gold coin condor = 25  
sucres = 5 U S A dollars £1 = 24 3325 sucres

**Egypt**.—10 milliemes = 1 piastre Gold 100 piastre piece = £1 Egypt-  
ian (£ E 1) 1 Talari = 20 piastres = 4/12d Par of exchange is  
97 50 piastres to £1 sterling Mexican and Spanish dollars are also  
in circulation at 20 piastres to the dollar

**Estonia**.—Estonian Kroon (written as E Kroon) (E k1) divided into  
100 cents 18 159 E Kroons (E kr) = £1 sterling

**Gold Coast Colony**.—As Great Britain

**Guatemala**.—Unit of currency gold "Quetzal" equal to U S dollar.  
Silver coins in circulation include Half quetzal, quarter quetzal,  
ten cents, five cents, two cents, 1½ cents

**Haiti Republic**.—U S Currency is legal tender 1 gourde = 100 centi-  
mes = \$ 0 20 (U S A currency)

**Hawaii (Sandwich Island)**.—As U S A

**Honduras**.—100 cents = 1 dollar = 4/2d

**Iceland**.—100 Auror = 1 krona, Par of Exchange £1 = 18 159 Kronur.  
Stabilised at 22 15 Kr since 1925

**Iran**.—1 rial = 100 cents = 20 dinais Silver coins are 5, 2, 1, and ½  
rials, nickel coins for 5, 10, and 20 dinars and copper coins for 1,  
and 2 dinars Par of Exchange £1 = Rial 80

**Iraq**.—1 dinar = 1,000 fils Silver Coins are 20 and 50 fils £sterling =  
1 dinar 50 fils silver coin and 1 dinar note are popular 200 fils  
coin rial was first issued in June 1933

**Kenya**.—100 cents = 1 shilling (East African), 20s = £1

**Malta**.—As British.

**Mauritius**.—100 cents = 1 rupee = 1s 6d

**Mexico**.—100 centavos = 1 peso or Mexican dollar Par of Exchange  
is £1 = 9 76 Pesos (\$)

**New Foundland**.—100 cents = \$ 1 Par of Exchange £ = \$ 4 86½

**New Zealand**.—As Great Britain

**Nicaragua**.—100 centavos = 1 Cordoba = 1 U S A dollar Par of  
Exchange £1 = 4 8665 cordobas

**Nigeria**.—As in Great Britain

**Palestine**.—1,000 Mills = The Palestine Pound (£ P) = £ 1 sterling

**Paraguay**.—Gold coin is a peso divided into 100 centavos = 3/11½d.  
Par of exchange \$ 5 04 (gold).

**Peru**.—100 centavos = 10 dineros = 1 sol Gold pieces equivalent to  
10 soles were known as libra (£ P) The par of exchange is 17 38  
soles = £ 1, 1 sol = 28 cents (U S A)

**Portugal**.—100 centavos = 1 escudo (formerly called milreis), 110  
escudos being equal to £1 sterling Gold coins are 1, 2, 5 and 10  
escudos

**Portuguese East Africa**.—1 escudo = 100 centavos, 110 escudos being  
equal to £1 sterling

**Sarawak**.—As Straits Settlements, 100 cents = 1 dollar = 2s 4d (parity  
value).

**Somalliland**.—Based on the Indian rupee

**Spain**.—100 centimes = 1 peseta, 5 peseta pieces are known as duro  
Parity value is 25 22½ pesetas to £1 sterling.

**Sudan**.—As in Egypt

**Sweden**.—1 Krona = 100 ore. Par of exchange £ = Kr 18 159 Gold  
coins are 20, 10 and 5 krona pieces

**Switzerland**.—100 centimes = 1 Swiss franc Gold coin is a 20 franc  
piece Par of exchange is 25 22½ Swiss francs to £ 1 sterling The

- legal rates of the notes of the National Bank have been fixed, the higher margin being 34 55 and the lower one 25 94 per cent.
- Syria.**—100 piastres = 20 francs
- Tanganyika.**—100 cents = 1 shilling (East Africa); 20 shillings = £1.
- Turkey.**—40 paras = 1 piastre Gold coin equivalent to 100 piastres is known as lira or Turkish pound (£ T) The Turkish Pound is stabilised at 12 04 French francs.
- U. S. S. R.**—The currencies are tchervonetz bank-notes, treasury notes, silver coins, copper and bronze coins. Silver coins circulate in the values of 1 rouble and 50 kopeks (or poltinnik). The legal pure gold content of a tchervonetz is ten times that of the rouble 1,000 kopeks = 10 roubles = 1 tchervonetz Par of exchange: 25 roubles to a pound sterling
- Uganda.**—100 cents = 1 shilling (East Africa), 20 shillings = £1.
- Union of South Africa.**—As Great Britain.
- United Kingdom.**—The sovereign is the standard monetary unit It weighs 7 98805 grammes, .916½ fine or 7 322382 grammes fine gold. The following shows the division of English money, 4 farthings = 1 penny, 12 pence = 1 shilling, 20 shillings = 1 pound Gold coins are five-pound, two pound, sovereign and half sovereign with proportionate weights of gold 1 crown = 5 shillings, 1 florin = 2 shillings Par of exchange £1 = \$ 4 86½ Re 1 = 1s. 6d sterling
- United States of America.**—100 cents = 1 dollar = 4s. 2-1/12d. Gold coin equivalent to 10 dollars is known as eagle Par of exchange is 4 8665 dollars to £1 sterling.
- Uruguay.**—100 centismos = 1 peso = 3s 3-1/16d Currency is silver on gold basis Argentine gold and European gold are good tender.
- Venezuela.**—100 centimos = 1 gold bolivar (V. B.) Gold coins of 20, 25 and 100 bolivars Parity value is 25 2515 V. B. to £1 sterling.
- West Indies.**—As U. S. A. Coins of South American Republics are also current.
- Zanzibar.**—As British India.

## EXCHANGE RATES

The exchange rates as quoted on 17th. November, 1942 follow .—

Bombay on London	--	--	1 Sh — 5 <sup>31</sup> / <sub>32</sub> d.
" on New York	--	--	Rs 332—12.as
London on Bombay	--	--	1 Sh — 6d
" on New York	--	--	\$ 4 02½ — 4 03½
" on Berne	--	--	17 30—17 40 Swiss francs
New York on London	--	--	\$ 4 03½

## GOLD AND SILVER PRICES.

Gold and silver prices on the same date follow :—

Gold		Spot	Forward
Bombay	--	Rs 64-0-0	Rs 63-8-0
London	--	£ 8-8-0	£ 8-8-0
Silver			
Bombay	--	Rs 106-0-0	Rs 103-8-0
London	--	23½ d.	23½ d.
New York	--	44½ cs.	—

**HEALTH GUIDE** will give you ideas that keep you fit. As. 5.  
**INDUSTRY BOOK DEPT.,** Shambazar, Calcutta.



# WEIGHTS AND MEASURES

## BAZAAR WEIGHT.

The Unit of the British Indian Ponderary System is called the Tola. It weighs 180 grains English Troy Weight. From it upwards are derived other weights, viz, Chattaek, Seer and Maund.

5 Tolas	make 1 Kancha	To reduce Bazaar weight into
4 Kanchas	" 1 Chattaek	Factory weight add 1-10th
4 Chattaeks or		To reduce Bazaar weight into
20 Tolas	" 1 Powah.	cwt., add 1-10th and deduct 1-3rd
4 Powahs or		of that sum the remainder will
80 Tolas	" 80 Seer.	be cwt
5 Seers	" 1 Pusseree	To convert Bazaar maund to
8 Pusserees or		factory maund subtract 1/11th
40 Seers	" 1 Maund	To reduce Factory Maunds into
1 Maund=40 seers=160 powahs		tons, divide by 30, and the quo-
= 640 chattaeks = 3200 tolas		tient will be the answer

**Bazar Weight.**—16 chattaeks=1 seer, or 2 lbs 0 oz 13 drs; and 40 seers=1 maund, or 82 lbs 2 ozs 3 drs, 100 Bazaar maunds =110 Factory maunds and 1½ Factory maund=1 cwt 1 Bazaar maund=82 137 lbs=34 85734 kilograms

**Factory Weight.**—16 chattaeks=1 seer, or 1 lb 13 ozs 14 drs; and 40 seers=1 maund or 74 lbs 10 ozs 11 drs The Indian Maund = 82 2/7 lb avoirdupois weight. 1 factory maund = 74 667 lbs=33 8689 kilograms

### Provincial Weights.

The words 'maund' and 'seer' signify different weights in different parts of India. But for railway tariff the maund is taken to be equal to 82-2/7 lbs

**Bengal**—As British Indian weights

**Bombay**—1 maund = 40 seers = 28 lbs

1 candy (average)=20 maunds =560 lbs

Satara candy=3,055 lbs av

**Madras**—1 palam = 1½ oz

1 seer = 8 palams = ½ lb

1 vis = 5 seers = 3½ lb

1 maund = 8 vis = 25 lbs

1 candy=20 maunds=500 lbs

1 Dutch candy = 672 lbs

1 French candy = 536 lbs

**Mysore**—1 chinum=8 grains

### Units of Lengths.

1 cubit (hath) = 2 bighats

(spans) = 24 angulis = 18 inches

1 yojana=4 krosas=2,000 dandas = 16,000 yds = 32,000 haths = 9 1/11 miles

1 karam (Madras)=3 cubits=54 in.

1 kathi (Bombay)=94 ft

1 vent (Bombay)=1 bighat=9 inches.

1 illahi gaj (U P)=33 inches

Bengal krore=2 miles 1 furlong 3 poles 3½ yds

Imperial krore=2 miles 240 yds

### Cloth Measures.

1 gaj (Bengal)=16 giras=48 angulis=36 inches

1 gaj (Bombay)=24 tasus=27 inches

1 kovid (Madras)=18 6 inches

1 gaj (Poona)=34 1/5 inches

### Land Measure.

**Bengal**—1 Cattah=16 chataks=720 sq ft

1 bigha=20 cattahs=14,400 sq ft =1,600 sq yd

For experimented formulas for damp proofing matches consult **SAFETY MATCHES AND THEIR MANUFACTURE.** Rs 3, Industry, Calcutta.

- 3  $\frac{1}{40}$  bighas = one acre, 1,936 bighas = 1 sq mile  
**Bombay**—1 bigha = 20 pands = 3,927 sq yds  
 1 chahur = 20 rukehs = 120 bighas  
**Madras**—1 bigha = 6,400 sq yds  
 1 cawni = 24 manais = 57,600 sq ft.  
**Punjab**—1 bigha = 4 kanals = 1,620 sq yds.  
 1 ghuma = 2 bighas = 3,240 sq yds  
**U. P.**—1 bigha = 20 biswas = 3,025 sq yds.  
**Benares**—1 bigha = 3,036 sq yds

**Indian Dry Measure.**

- Bengal**—1 maund = 32 rakis = 128 konkies,  
 1 sal =  $2\frac{1}{2}$  mds  
**Bombay**—1 seer = 2 tipari = 72 tanks = 49 1408 cub in.  
 1 phara = 16 payalis = 64 seers = 3,145 0112 cub inches  
 1 muda = 25 pharas = 45 5 cub ft  
**Madras**—1 phara = 5 markata = 40 padis = 320 olaks = 3,750 cub inches  
 1 garu = 80 pharas

**Indian Apothecaries Weight.**

- 1 tollah = 16 annas = 96 ratis = 384 dhans, 1 dhan being the weight of 1 grain of paddy.  
 1 masha = 15 grains = 8 ratis or gunjas

**English Apothecaries Weight.**

- 20 grains = 1 scruple, 3 scruples = 1 drachm, 8 drachms = 1 ounce, 12 ounces = 1 pound

**Apothecaries Measures.**

- 60 minims = 1 fluid dram, 8 fluid drams = 1 fluid ounce; 20 fluid ounces = 1 pint, 8 pints = 1 gallon  
 A tea-spoonful = 1 fluid drachm  
 A dessert-spoonful = 2 fluid drachms  
 A wine-glassful = 2 to  $2\frac{1}{2}$  fluid ounces  
 A table-spoonful = 4 fluid drachms  
 A tea-cupful = 5 fluid ounces  
 A tumblerful = about 10 fluid ounces

**English Weights and Measures.**

- 1 yard (yd) = 3 feet (ft) = 36 inches (in) = 91 44 centimetres.  
 1 mile = 8 furlongs = 80 chains = 1,760 yds = 3,520 cubits = 1,609 metres.  
 1 sq. yard = 9 sq ft. = 144 sq in.  
 1 acre = 4 roods = 160 sq. poles = 4,840 sq. yds =  $3\frac{1}{40}$  bighas.  
 1 square mile = 640 acres  
 1 cubic yard = 27 cubic feet = 1,728 cubic inches.  
 1 cubic foot = 28 315 litres.  
 1 pound avoirdupois (lb) = 16 oz = 256 drachms (dr) = 7,000 grains = 453 6 grams = 38 89 tolas = 0 48611 seer  
 1 oz = 16 drachms = 437 5 grains = 28 35 grams = 2 43 tolas  
 1 fluid oz = 28 4 c.c.  
 1 pound Troy = 12 ozs = 240 cwt = 5,760 grains = 373 248 grams = 32 tolas  
 1 hundredweight = 4 quarters (28 lbs. each) = 112 lbs = 1 maund 14 seers = 1 36111 maund  
 1 ton (gross ton) = 20 cwt = 2,240 lbs = 1 016 kilos = 27  $\frac{1}{4}$  maunds nearly = 27 2222 maunds

In England the ton or gross ton of 2,240 lbs. is exclusively used In the United States of America the term "ton" may mean the gross ton of 2,240 lbs. or the short ton of 2,000 lbs. avoirdupois

To convert Avoirdupois weight into Indian weight.—

Multiply the weight in lbs. Avoirdupois by 35 and divide by 72, or multiply the weight in cwt by 49, and divide by 36; the result will be the weight, in the former, in Seers, in the latter, in Maunds.

1 stone = 14 lbs, 1 cental = 100 lb

1 carat = 4 grains.

**Measures of Capacity.**

- 1 Imperial gallon (gal) = 4 quarts (qts) = 2 pints (pts)

For experimented formulas for damp proofing matches consult **SAFETY MATCHES AND THEIR MANUFACTURE.** Rs. 3. Industry, Calcutta.

= 16 gills = 32, noggins  
 = 10 lbs (of water) = 4 54  
 litres  
 1 pint = 0 568 litre = 2 gills  
 = 4 noggins = 1½ lbs  
 (water)  
 In England, by the term gal-  
 lon (gal) the Imperial gallon is  
 understood, 1 Imperial gallon be-  
 ing equal to 1 2 wine gallons or 1  
 wine gallon = 0 8335 Imperial  
 gallon, 1 wine gallon = 4 quarts  
 = 6 pints = 3 785 litres

#### Metric System.

1 metre (m) = 10 decimetres  
 (dm) = 100 centimetres  
 (cm) = 1,000 millimetres  
 (mm) = 39 371 inches.  
 1 litre (l) = 1,000 cubic centi-  
 metres (cc or c cm) = 0 22  
 gallon = 35 2 fluid oz  
 1 cubic metre (cb m) = 1,000  
 litres = 220 gallons  
 1 gramme (g or gr or grm) =  
 = 10 decigrammes (dg) =  
 100 centigrammes (cg) =  
 1,000 milligrammes (mg) =  
 15 43 grains  
 1 metric ton = 1,000,000  
 grammes = 26 79228 mds.  
 1 kilogramme (kg or kilo) =  
 1,000 grammes = 2 2 lbs =  
 1 07169 seer.  
 50 kilogrammes = 1 centner =  
 1 cwt nearly  
 100 kilogrammes = 1 quintal or 1  
 metric centner = 1 doppel-  
 zentner = 1 dz = about  
 1/10th ton.  
 1,000 kilogrammes = 1 ton (t),  
 i.e., metric ton = 19 cwt. 77  
 lbs = 2204 6 lbs  
 1 cubic centimetre water = 1  
 gramme  
 1 litre water = 1 kilogramme  
 = 2 2 lbs  
 1 cubic metre water = 1 metric  
 ton = 2204 6 lbs

#### Nautical Measures.

6 feet = 1 fathom  
 100 fathoms = 1 cable length  
 10 cables = 1 nautical mile or  
 knot (1 151 miles)  
 60 nautical miles = 1 degree

#### Yarn Measures.

Cotton.—Thread = 1½ yard

Lea or Skein (skn) = 120 yds.  
 Hank (hk) = 7 skeins or Leas  
 = 840 yards.

Spindle (Spdl) = 18 hanks  
 Bundle hanks, either of 5 lbs.  
 or 10 lbs.

Reels of cotton vary from 30 to  
1,760 yards

Wool—Warp = 80 yards

Hank = 7 warps = 560 yards

Linens.—Hank = 300 yards.

Spindle = 48 hanks

Bundle = 200 hanks

Count = the number of hanks  
in 1 lb

#### U.S.A. Weights & Measures.

U S A. weights and measures  
only differ from British in the  
following —

2000 lbs = 1 short ton

100 lbs = 1 cental.

U S gallon = 8 345 lbs av

U S Barrel of oil = 42 U S.  
gallons = 35 Imperial gal-  
lons

1 Bushel = 9692 Imperial Bu-  
shel

1 Barrel of Flour = 196 lbs.  
av.

#### Size of Papers.

	ins.	ins
Demy	-- 13	× 22
Double Crown	-- 20	× 30
Double Foolscap	-- 17	× 27
Double Imperial	-- 29	× 45
Double Royal	-- 26	× 40
Double Super Royal	29	× 44
Foolscap	-- 13½	× 16½
Imperial	-- 22½	× 29
Large Post	-- 16½	× 21
Medium	-- 18	× 23
Royal	-- 20	× 26
Super Royal	-- 22	× 29

(The weight varies, according  
to the thickness and quality of  
the paper, from 7 to 100 lbs)

#### Miscellaneous Weights and

#### Measures.

1 chest of opium = 140 lbs

1 maund of wood = 32 lbs

1 bale of cotton = 400 lbs

1 bale of cotton goods = 25  
pieces of 30 yds

1 kachha bale of jute = 3½ mds

1 pakka bale of jute = 5 mds

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Re. 1/12. INDUSTRY BOOK DEPT., Shambazar, Calcutta.

1 chest of tea=80 120 lbs.  
 1 bag of cement=1 cwt.  
 1 bag of sugar=2½ mds  
 1 barrel of tar=26 5 gallons.  
 1 barrel of turpentine=224 to 280 lbs  
 1 box of camphor = 112 lbs.  
 1 bushel of wheat=60 lbs.  
 1 firkin of soap=64 lbs.  
 1 hogshead of brandy=45 to 60 gallons.

**Special Units.**

1 lakh=1,00,000.  
 1 crore=1,00,00,000.  
 1 gross=12 dozen=144 units.  
 1 great gross=12 gross  
 1 long hundred=120 units.  
 1 long dozen=13 units  
 1 ream paper=20 quires=480 or 500 sheets.  
 1 phara of lime or coal=27 inches × 20 inches × 9 inches.

**Cubic Feet Per Ton Of Merchandise.**

1 ton Bengal coal	= 40	cubic feet.
1 " Fine screening coal	= 41	" "
†1 " Paddy (space measurement)	= 50	" "
1 " Sugar (new) in bags	= 50	" "
1 " Sugar (old) in bags	= 47	" "
*1 " Barley in bulk	= 54	" "
*1 " Cotton seed in bulk	= 80	" "
*1 " Linseed in bulk	= 54	" "
*1 " Oats in bulk	= 80	" "
*1 " Maize in bulk	= 52	" "
*1 " Rapeseed in bulk	= 61	" "
*1 " Rye in bulk	= 42	" "
*1 " Wheat in bulk	= 52	" "
1 " Java Molasses (liquid)	= 26	" "
1 " Java Molasses (solid in baskets)	= 25	" "
1 " Rice in bags	= 50	" "

†Actual weight about 1,640 lbs. gross

\*To calculate space occupied by these seeds in bags, add 10 % to the given figures

**WEIGHT & VOLUME OF WATER.**

1 cub in. of water = 0361 lb. = 252 418 grains.  
 1 Imperial gallon " = 10 lbs  
 1 cub ft " = 62 32 lbs. = 6 232 Imperial gallons.  
 1 ton " = 224 gallons = 35 88 cub ft.  
 1 gallon of water occupies 277 274 cub inches.  
 1 litre of distilled water = 2 2 lbs = 1 kilo gram = 0 22 Imperial gallon.  
 1 lb. of water = 27 68 cub in, 1 cub ft salt water = 64 lbs.; 1 pint of water = 34 672 cub in, 1 oz of water = 1 729 cub in.

**ENGINEERING MEASUREMENTS.**

Circumference of a Circle = 3 1416 × diameter.

Area of triangle = ½ base × altitude

" rectangle = length × breadth.

" trapezium = ½ the sum of the parallel sides × altitude.

" circle = 3 1416 × (diameter)².

" section of circle = length of the arc × radius

Area of a segment of a circle = area of the section minus area of the triangle

" cylinders = Perimeter of the section of the base × height.

" parabola = 66 × height × breadth

" ellipse = 7854 × major axis × minor axis

" sphere = 3 1416 × (diameter)².

Circumference of a circle × 31831 = the diameter

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## 122 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Diameter of a circle  $\times 8862$  = the side of an equal square

Side of a square  $\times 1128$  = the diameter of an equal circle.

Volume of parallelopiped = length  $\times$  breadth  $\times$  height

„ sphere =  $5239 \times (\text{diameter})^3$

„ cone =  $1047 \times (\text{radius})^2 \times \text{height}$

Horse Power = 33,000 ft pounds of work per minute or 550 ft.  
pounds of work per second = 746 Watts

1 H P hr = 33,000  $\times$  60 foot lbs

Brake Horse Power (B H P) is the power not absorbed by the engine in driving the piston but available for other work

M E (Mechanical Efficiency) is the proportion of B H P to 1 H P

Atmospheric pressure = 14.7 lbs per sq in = 766 mm of mercury per sq cm

To calculate height from barometrical readings (B, b = readings at two different heights), Height =  $60350 \log B/b$

### THERMOMETERIC SCALES.

Three different systems of thermometers are in use, viz Fahrenheit thermometer, Centigrade thermometer, and Reaumur thermometer.

In the Fahrenheit thermometer the freezing point is marked 32° and the boiling point 212°, in the Centigrade thermometer these are marked 0° and 100° respectively while in the Reaumur thermometer these are marked 0° and 80° respectively

### ELECTRIC MEASURES.

OHM, the unit of resistance, is the resistance offered to an unvarying electric current by a column of mercury, at the temperature of melting ice, 14,4521 grammes in mass, of a constant cross-sectional area, and of a length of 106.3 centimetres

AMPERE, the unit of current, is the unvarying electric current which, when passed through a solution of nitrate of silver in water, deposits silver at the rate of 0.001118 of a gramme per second

VOLT, the unit of pressure, is the pressure, which, when steadily applied to conductor whose resistance is one ohm, will produce a current of one ampere

JOULE, the unit of work, is the energy per second of one ampere in one ohm

WATT, the unit of power, is 1/746th. of one horse-power, the horse power being 33,000 lbs raised one foot in one minute

COULOMB, the unit of quantity and is the amount of electricity transferred by one ampere per second

FARAD the unit of capacity.

HENRY the unit of induction

B O. T. unit = 1,000 Watt-hours (1 kilowatt) = 3,600,000 joules  
=  $\frac{1}{3}$  h p hours

Volts  $\times$  Amperes = Watts 1 Electric Unit = 1,000 Watt-hrs = 1.34 H. P. hrs.

In carbon lamps of 16 candle power (nominal) about four watts are required per candle power to give good economical results for domestic purposes Metallic filament lamps require considerably less

Guide to DYEING & CLEANING—A handbook for amateurs and professionals. As. 5. INDUSTRY BOOK DEPT., Shambazar, Calcutta.

## UNITS OF SALES OF COMMODITIES.

Quotations in Indian market are in rupees, annas and pies :—

<b>Bonemeal.</b>	
Calcutta	per ton
Karachi	per md of 88 4 lbs.
<b>Bristles.</b>	
Bombay	per lb
Calcutta	per md
<b>Cardamoms.</b>	
Bombay	per Surti maund of 39 2 lbs
Madras	per candy of 25 mds
<b>Castor Seed.</b>	
Bombay	per candy of 560 lbs.
Calcutta	per md
Cocanada	per candy of 500 lbs
Madras	per candy of 500 lbs.
<b>Castor Oil.</b>	
Calcutta	per md.
Cocanada	per candy of 500 lbs.
Madras	per candy of 500 lbs.
<b>Cement.</b>	
English	per cask.
India	per ton
<b>Chillies.</b>	
Bombay	per candy of 588 lbs or 21 Bombay mds
Tuticorin	per tulam of 15 lbs
Negapatam	per seed of 9 3/5 oz
Calcutta	per md
<b>Coal.</b>	
Calcutta	per ton
<b>Coconut Oil.</b>	
Cochin	per candy of 600 lbs
Calcutta	per md
Mangalore	per md. of 28 lbs.
<b>Coffee.</b>	
Bangalore	per cwt or per md. of 28 lbs
Tuticorin	per md of 26 lbs
<b>Copra.</b>	
Cochin	per candy of 600 lbs
Madras	per Dutch candy of 672 lbs
Mangalore	per md. of 32 lbs
<b>Cotton, Raw.</b>	
Bombay	per candy of 784 lbs
Calcutta	per md of 104 lbs
Karachi	per md of 84 lbs
Khandesh	per candy of 784 lbs
Barsi	per boja of 259 1/4 lbs
Dharwar	
	per barmani of 336 lbs
Amreli (Kathiawar)	
	per candy of 1028 1/2 lbs.

<b>South India</b>	
	per candy of 500 lbs.
Broach	per candy of 885 1/4 lbs.
Berar	per khandi of 784 lbs.
<b>Middle Gujerat</b>	
	per bhar of 1020 lbs.
<b>North Gujerat</b>	
	per bhar of 640 lbs.
Baroda	per bhar of 984 lbs.
Surat	per candy of 800 lbs.
<b>Bhownagar</b>	
	per candy of 1028 1/2 lbs
<b>Tinnevelly</b>	per candy of 500 lbs.
Gadag	per barmani of 336 lbs.

<b>Cotton Goods.</b>	
Yarn	per lb.
Piecegoods	per lb or per piece.

<b>Cotton Seed.</b>	
Bombay	per candy of 784 lbs.
Karachi	per standard md.

<b>Gold.</b>	
All-India	per tola.

<b>Gram.</b>	
Bombay	per candy of 756 lbs.
Karachi	per candy of 656 lbs.

<b>Groundnut.</b>	
Bombay	per candy of 560 lbs.
Madras, South	per French candy of 529 109 lbs.
Cuddalore	per candy of 530 lbs.
<b>Central Provinces</b>	
	per palla of 3 mds 6 srs. or per khandy of 5 1/2 to 6 mds.
<b>Gulbarga or</b>	
Raichur	per baja of 96 srs.
Ugir	per khandy of 260 srs.
Warangal	per candy of 512 lbs.
Bihar	per palla of 120 srs.
<b>Mysore</b>	
	per satta of 8 Mysore mds.
Nawanagar	per candy of 20 mds.
Travancore	per candy of 531 lbs.
<b>Kathiawar</b>	
	per bag of 72 lbs. bold quality. per bag of 80 lbs small quality.

<b>Groundnut Oil.</b>	
Bombay	per cwt. or per md of 28 lbs
Calcutta	per md.
<b>Central Provinces</b>	
	per tanki of 4 1/2 mds
Madras	per candy of 500 lbs.

Guide to DYEING & CLEANING—A handbook for amateurs and professionals. As. 5. INDUSTRY BOOK DEPT., Shambazar, Calcutta.

# 124 INDUSTRY YEAR BOOK & DIRECTORY, 1943

## Hides, Raw.

Calcutta	per 20 lbs
Bombay	per lb
Karachi	per md of 28 lbs
U P	per md of 28 lbs.
Punjab	per md of 28 lbs

## Hides, Tanned.

All-India	per lb
Jute Bags.	per 100 bags
Calcutta	per 100 yds
Jute Cloth.	
Calcutta	

## Jute, Raw.

Calcutta	per bale of 400 lbs
Bimlipatam	per bale of 400 lbs

## Kapok.

Calcutta	per md of 82 2/7 lbs
Bombay	per candy of 784 lbs
Madras	per kantlam of 1680 lbs

## Kerosene Oil

Calcutta	per case of 2 tins
each	containing 4 gallons

## Linseed.

Bombay	per cwt
Calcutta	per md

## Linseed Oil.

Calcutta	per gallon or drum
----------	--------------------

## Maize.

Calcutta	per md
Karachi	per candy of 656 lbs

## Metals & Paints.

Calcutta	per cwt
----------	---------

## Millet.

Karachi	per candy of 656 lbs
Bombay	per candy of 27 Bom- bay maunds

## Mohua Seed.

Bombay	per cwt
Calcutta	per md

## Myrobalans

Madras	per candy of 500 lbs
Bombay	per candy of 700 lbs
Calcutta	per md

## Oats.

Calcutta	per md
Bombay	per candy of 28 Bombay mds

## Paraffin Wax.

Calcutta	per md
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## Pepper.

Tellicherry	per cwt
Cochin	per candy of 600 lbs
Bombay	per candy of 21 Bombay mds
Calcutta	per md

## Petrol.

Calcutta	per American gallon.
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## Pulses.

Calcutta	per md
Bombay	per candy of 784 lbs
Karachi	per candy of 656 lbs.

## Rape or Mustard Seed.

Karachi	per candy of 656 lbs.
Bombay	per cwt

## Rice.

Calcutta	per md
Karachi	per candy of 656 lbs.
Madras	per bag of 166 lbs.
Bombay	per bag of 168 lbs
Nagpur	per khandy of 728 lbs
Baroda	per bag of 1 1/2 cwt
Bangalore	
Nellore	per bag of 225 to 240 lbs
Delhi	per bag of 122 lbs
	per bag of 2 1/2 mds

## Sesame Seed.

Bombay	per candy of 560 lbs
Karachi	per candy of 656 lbs
Madras	per bag of 164 lbs

## Shellac.

Calcutta	per md
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## Silk, Raw.

Calcutta	per factory seer.
Karachi	per lb.
Mysore (chasam)	per md
	of 25 lbs

## Silver.

All-India	per 100 tolas
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## Skins, Raw.

Madras	per 10 pieces
Bombay	per lb.
Karachi	per lb.

## Skins, Tanned.

All-India	per lb.
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## Sugar.

Calcutta	per md.
Bombay	per cwt.
Cawnpore	per md
Coimbatore	per pathi of 280 lbs.
Madras	per candy of 500 lbs

## Sugar, Raw (Gur).

Madras	per candy of 500 lbs
Coimbatore	per pathi of 280 lbs
Masulipatam	per bag of 168 lbs
Tuticorm	per tulam of 20 1/2 lbs.

## Tea.

Calcutta	per lb
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## Tobacco.

Calcutta	per md of 82 2/15 lbs
Bombay	per md of 82 2/15 lbs
Negapatam	per seer of 24 tolas

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<b>Turmeric.</b>		<b>Cotton seed</b>	in £ s per ton
Bombay	per candy of 588 lbs	Gold	in £ s per oz
Cocanada	per md of 25 lbs.	Groundnut	in £ s. per ton.
<b>Turpentine.</b>		Hides	in sh d. per lb.
Calcutta	per drum	Jute	in £ s. d. per ton.
<b>Vegetable Product.</b>		Linseed	in £ s. d per ton.
All-India	per case of 2 tins of 40 lbs each.	Metals	in £ s d per ton
<b>Wheat.</b>		Pig iron	in £ s. per ton.
Bombay	per bag of 196 to 210 lbs	Rubber	in pence per lb.
Karachi	per candy of 656 lbs	Rice	in sh d per cwt.
Lyallpur	per md	Shellac	in sh d. per cwt.
<b>Wool.</b>		Silver	in pence per oz
Bombay	per candy of 588 lbs	Skins	in sh d per lb.
Karachi	per md of 84 lbs	Sugar	in sh d. per cwt
Madras	per lb.	Tanned Hides and skins	in sh. d. per lb.
		Tea	in sh d per lb.
		Wheat	in £. s per 63½ lbs.

## FOREIGN MARKETS.

<b>London.</b>	
Castor seed	in £. s per ton
Cement	in £ s per ton.
Coffee	in sh. d per cwt
Cotton	in pence per lb.

## New York.

Cotton	in cents per lb.
Hessian	in cents per yd.
Kerosene oil	in cents per Imperial gallon.
Rubber	in cent per lb

## RELATIVE TIME.

12 noon Greenwich Mean Time is as follows in:—

Adelaide	9-15 p m.	Madras	5-21 p m.
Aden	3-1 "	Madrid	11-45 a.m.
Alexandria	1-59 "	Malta	12-58 p.m.
Algiers	12-12 "	Melbourne	9-40 "
Amsterdam	12-20 "	Milan	12-36 "
Antwerp	12-17 "	Monte Video	8-13 a.m.
Athens	1-35 "	Montreal	7-6 "
Baghdad	2-58 "	Moscow	2-30 p m
Baltimore	6-54 a.m.	Naples	12-57 "
Belfast	11-36 "	New York	7-4 a.m.
Berlin	12-54 p m.	Paris	12-9 p.m.
Berne	12-30 "	Port Said	2-11 "
Bombay	4-51 "	Pretoria	1-56 a.m.
Boston	7-16 a.m.	Quebec	7-15 "
Brindisi	1-12 p m	Rio de Janeiro	9-7 "
Brussels	12-17 "	Rome	12-50 p.m.
Buenos Ayres	8-7 a m	Rotterdam	12-18 "
Cairo	2-3 p m	San Francisco	3-50 a.m.
Calcutta	5-54 "	Shanghai	8-6 p m
Cape Town	1-14 "	Singapore	6-56 "
Colombo	5-19 "	Stockholm	1-12 "
Constantinople	1-56 "	Suez	2-10 "
Geneva	12-25 "	Sydney	10-5 "
Gibraltar	11-39 a.m	Tokio	9-19 "
Hongkong	7-37 p m	Vancouver	3-36 a.m
Khartoum	1-32 "	Vienna	1-6 p m
Leningrad	2-3 "	Washington	6-52 a.m

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# Commercial Laws & Notifications

## EXPORT PROHIBITIONS

In exercise of the powers conferred by sub rule (3) of Rule 84 of the Defence of India Rules, the Central Government have prohibited the export to any place outside India of any goods of the description specified in the Schedule hereto annexed, except the following, namely —

(a) any goods consigned to or destined for the Portuguese possessions in India and intended for use or consumption therein,

(b) any goods of the description specified in Part E of the said Schedule and consigned to or destined for any part of the British Empire (including Mandated Territories) other than Elre and Palestine,

(c) any goods of the description specified in Part C of the said Schedule and covered by an export licence issued by the Central Government in the Department of Supply or by an officer authorised by that Department in this behalf,

(d) any goods of the description specified in Part B, D or E of the said Schedule and covered by an Export licence issued by or under the orders of the Export Trade Controller appointed in this behalf by the Central Government,

(e) any goods constituting the stores or equipment of an outgoing vessel or conveyance, or the bona-fide personal effects of the crew-of, or of the passengers in, such vessel or conveyance,

(f) any goods transhipped at a port in British India,

(g) any goods exported under the orders of Naval, Military or Air Force Authorities for Naval, Military or Air Force requirements,

(h) any goods exported under the orders of the Central Government or such officers as may be appointed by the Central Government in this behalf,

(i) any goods covered by an Open General Licence issued by the Central Government

### SCHEDULE

#### Part A.

(No licences)

1. Agar-agar
2. Arms, Ammunition and Military stores (including explosives and fulminate of mercury)
3. Chemicals and chemical preparations, the following —
  - (i) Acetone
  - (ii) Acid Acetic
  - (iii) Acid Formic
  - (iv) Aluminium Oxide
  - (v) Ammonium sulphate
  - (vi) Aniline and alkylated aniline
  - (vii) Calcium Acetate (acetate of lime)
  - (viii) Calcium Carbide
  - (ix) Chlorinated Hydrocarbons including Carbon Tetra-Chloride
  - (x) Chrome alum
  - (xi) Lathopone and Cadmium Lathopone

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Thick Type insertions in these pages are Profit Making—Surely.  
INDUSTRY, 22, R. G. Kar Road, Shambazar, Calcutta.

- (xii) Naphthalene
- (xiii) Phosphorus
- (xiv) Potassium bichromate.
- (xv) Sodium bichromate.
- (xvi) Sodium Hydrosulphite.
- (xvii) Sodium Nitrite.
- (xviii) Toluol (Toluene).

4. Drugs and medicines, the following—

Acidum Acetylsalicylicum, Acidum Boricum, Acidum Citricum, Acid Cresylic, Acidum Mandelicum, Acidum Tannicum, Acidum Tartaricum, Acriflavina, Aether Anaestheticus, Arsenious oxide Atropinae Sulphas, Barbitonum Solubile, Borax, Brilliant Green, Cinchona bark or powder, Chloroformum, Cocainae Hydrochloridum, Creosotum, Dextrosum, Emetinae Hydrochloridum, Ergota Praeparata and preparations, Fluoresceinum, Hexobarbitonum Solubile, Homatropinae Hydrobromidum, Hyoscinae Hydrobromidum, Insulinum, Iodum and preparations, Ipecacuanha and preparations, Mepacrine Hydrochloride, Pamaquin, Paraldehydum, Pentothol Sodium, Percaine, Potassii Bromidum, Potassii Iodidum, Procainae Hydrochloridum, Quinine Salts, Sodii Salicylas, Sulphonamide preparations (e g, Sulphanilamide, Soluseptasine M & B. 693, etc )

5 Any medicinal-preparation containing any one or more of the drugs or medicines specified in item 4 of this Part whether in bulk or in any other form, such as tablets, ampoules, solutions, ointments, etc , including all proprietary brands and Trade Mark preparations and equivalents of them intended for oral, hypodermic, intravenous or external use.

6 Glass Substitute

6A Gums and Resins the following —Gum Benzoin.

7 Hides, the following —

(i) Wet salted cow hides (trimmed according to trade custom) from 13 lbs. to 28 lbs.

(ii) Dry salted or dry (arsenicated or otherwise) cow hides (trimmed according to trade custom) from 6 lbs upwards

(iii) Wet salted buffalo hides (trimmed according to trade custom) from 25 lbs upwards

(iv) Dry salted or dry (arsenicated or otherwise) buffalo hides (trimmed according to trade custom) from 12 lbs. upwards

8 Horse hair and manufactures thereof.

9 Horses and mules

10 Instruments, Apparatus and Appliances, and parts thereof, the following

(i) Cameras

(ii) Clinical thermometers

(iii) Optical glass, formed and unformed

(iv) Optical instruments, all sorts, not specified in Part C.

(v) Surveying instruments and appliances

11 Leather unwrought, the following.—

(i) All vegetable tanned leather produced from buffalo hides weighing in hides 14 lbs and over, or in sides 7 lbs and over.

(ii) All classes of vegetable tanned leather produced from cow hides, kips or cow calf-skins weighing 5 lbs. or over other than "East India Kips"

(iii) All chrome tanned upper leather produced from cow or buffalo hides and having a minimum substance of 15 mm and a minimum area of 9 sq ft per half hide (side) or 18 sq ft. per full hide

11A Leather Manufactures, the following—

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- (i) Men's footwear, all sorts and component parts thereof
- (ii) Suitcases, bags, attache cases or other containers made of cow or buffalo hide or leather and component parts thereof
- 12 Metals and Ores, the following.—
  - (i) Antimony
  - (ii) Ferro-alloys including ferro-chrome, ferro-manganese, ferro-phosphorus, ferro-silicon, ferro-titanium, ferro tungsten, ferro-vanadium and ferro-molybdenum
  - (iii) Magnesium and magnesium alloys
  - (iv) Nickel, nickel oxide, nickel ore and matte, nickel alloys
  - (v) Phosphor alloys
  - (vi) Tin, wrought and unwrought, tin alloys.
  - (vii) Zinc or spelter, wrought and unwrought, zinc concentrates, dross and manufacturing residues, zinc alloys
  - (viii) Scrap containing any of the metals or alloys specified in entries (i) to (vii)
- 13 Pyrethrum flowers, whole or powdered, and extracts of any strength obtained therefrom, also insecticides containing pyrethrum flowers or extract of pyrethrum flowers
- 14 Roofing felts and associated joining materials.
- 15 Textiles, the following —
  - (i) Flax, raw.
  - (ii) Flax manufactures
- 16 Vessels for inland and harbour navigation (such as launches, boats, barges and dredgers) and component parts and equipment thereof
- 17 Wood preservatives, the following.—
  - (i) Coal tar.
  - (ii) Creosote
  - (iii) Mixtures containing coal tar or creosote

#### Part B.

*(Licences issued by the Export Trade Controller)*

- 1 Ascorbic acid
- 2 Bakelite and other synthetic moulding powders
- 3 Bacon and ham, not canned or bottled
- 4 Condiments, not canned or bottled
- 5 Drugs crude and refined, both indigenous and imported, medicines and medicinal preparations, other than those specified in Parts A and C
- 6 Glass bottles of crown cork pattern
- 7 Hops
- 8 Instruments, Apparatus and Appliances, and parts thereof, the following —
  - (i) Photographic papers, plates and films (excluding those used in X-ray photography and excluding cinema films).
- 9 Malt
- 10 Seed potatoes

#### Part C.

*(Licences issued by the Central Government in the Department of Supply or by an officer authorised by that Department in this behalf)*

- 1 Abrasives manufactured, including grinding wheels, emery wheel and powder, sand paper.
- 2 Belting for Machinery—
  - (i) of cotton;
  - (ii) of hair,
  - (iii) of leather

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3. Bitumen
4. Bristles, pig, and manufactures thereof.
5. Buttons, all sorts.
6. Carbonised coconut shell.
7. Cement
8. Chemicals and chemical preparations, the following.—
  - (i) Acid Hydrochloric
  - (ii) Acid Nitric.
  - (iii) Acid Sulphuric.
  - (iv) Alcohol Methyl
  - (v) Aluminous sulphates (including all forms of alum except chrome alum).
  - (vi) Ammonia and ammonium compounds excluding ammonium sulphate.
  - (vii) Barium Sulphate (Barytes).
  - (viii) Bleaching powder and chlorine.
  - (ix) Calcium chloride
  - (x) Caustic Soda
  - (xi) Chemical manures other than Ammonium sulphate.
  - (xii) Glycerine.
  - (xiii) Iodine.
  - (xiv) Magnesium sulphate
  - (xv) Potassium and Potassium compounds excluding Potassium bichromate and potassium chlorate.
  - (xvi) Gases, all sorts.
  - (xvii) Salts and other compounds of arsenic, chromium, copper, lead, mercury, molybdenum, nickel, platinum, radium, tin and zinc.
  - (xviii) Sodium bicarbonate.
  - (xix) Sodium carbonate.
  - (xx) Sodium silicate.
  - (xxi) Sodium sulphate.
  - (xxii) Sodium sulphide.
  - (xxiii) Sodium thiosulphate.
  - (xxiv) Sulphur.

9 Cork and cork manufactures

10 Drugs and medicines, the following —

Acidum Salicylicum, Adrenalina and preparations, Aethylis Chloridum, Amylis Nitris, Amylocaine Hydrochloride, Antipol, Naganol, Argentoproteinum, Belladonna roots and leaves, Benzoinum, Bismuthi Carbonas, Caffeins, Calciu Glueonas, Camphora, Chloral Hydras, Chrysarobinum, Glucesum liquidum, Hexamina, Hydrargyrum and preparations, Liquor Formaldehydi, Menthol, Morphine salts, Neocarsphenamina, Oleum Menthae, Piperitae, Phenacetinum, Phenoharbitonum Solubile, Phenol, Physostigminae Salicylas, Pituitary Extract, Resorcinol, Saccharinum, Sodiu Bicarbonas, Sulpharsphenamina, Thymol.

11 Any medicinal preparation containing any one or more of the drugs or medicines specified in item 10 of this Part whether in bulk or in any other form, such as tablets, ampoules, solutions, ointments, etc., including all proprietary brands and Trade Mark preparations and equivalents of them intended for oral, hypodermic, intravenous or external use

12. Glass, sheet
13. Graphite and graphite crucibles.
14. Hydraulic packing
15. Instruments, Apparatus and Appliances, and parts thereof, the following —
  - (i) Accumulators and dry cells.

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- (ii) All electrical instruments, apparatus and appliances, not specifically included under any other entry.
  - (iii) Electric fans and accessories
  - (iv) Electrical insulating materials of all sorts
  - (v) Electric lamps
  - (vi) Electric lighting accessories and fittings
  - (vii) Electric wires and cables (including telegraph and telephone) wires and accessories
  - (viii) Microscopes
  - (ix) Photographic plates and films used in X-ray photography
  - (x) Surgical and veterinary instruments, apparatus and appliances, including cotton wool and lint
  - (xi) Telegraph and telephone instruments and apparatus
  - (xii) Wireless instruments and parts thereof
  - 16 Nil
  - 17 Liquors, all sorts, excluding perfumed spirits
  - 18 Machinery and millwork, including parts thereof, but excluding—
    - (i) machine tools of any description, and
    - (ii) parts of machinery and millwork which are exported for purposes of repairs or are returned to the manufacturers as defective
  - 19 Machine Tools of all description and parts thereof
  - 20 Metals and Ores, the following —
    - (i) Aluminum and aluminium alloys
    - (ii) Antimony alloys containing more than 10 per cent of antimony including printing and bearing alloys
    - (iii) Beryl (Beryllium), ore, metal and alloys
    - (iv) Copper ores, copper wrought and unwrought, copper plates and sheets, copper wire, drawn, copper alloys
    - (v) Iridium, osmiridium, iridosmine and concentrates containing iridium
    - (vi) Iron or steel —
      - (a) Pig iron
      - (b) High speed Tool Steel in any form
      - (c) Die steel of any form
      - (d) Steel ingots
      - (e) Rolled, forged or cast steel
      - (f) Iron castings
      - (g) Tin plate
    - (vii) Lead ore; pig lead, lead sheets; lead pipes and tubes; lead alloys
    - (viii) Mercury
    - (ix) Molybdenum and molybdenum ores
    - (x) Platinum, crude and refined, platinum alloys
    - (xi) Radium, radium ores and concentrates
    - (xii) Tin Concentrates and ores
    - (xiii) Tungsten and Tungsten ore (Wolfram)
    - (xiv) Vanadium and Vanadium ores
    - (xv) Scrap containing any of the metals or alloys specified in entries (i) to (xiv)
  - 21 Manufactured articles, not specified elsewhere in this Schedule, made wholly or mainly of any of the metals or alloys specified in item 12 of Part A or in item 20 of this Part, including containers, when not in use as containers or when in use as containers of goods specified in this Part
- (NB—An article shall be deemed to be made mainly of any of the metals or alloys referred to if such metal or alloy constitutes the major part of either the bulk or the value of the article)

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- 22 Paints, varnishes and enamels, all sorts not covered by any other entry in this Part
- 23 Processing materials for rubber tyres not included in any other item in this Part
- 24 Provisions, the following —
  - (i) Canned and bottled
  - (ii) Ghee and butter
- 25 Rubber manufactures, all sorts, including rubber shoes and canvas shoes with rubber soles.
- 26 Sera
- 27 Textiles, the following —
  - (i) Cotton canvas
  - (ii) Cotton mosquito netting
  - (iii) Cotton sewing thread
  - (iv) Cotton tape
  - (v) Hemp, raw, all sorts (Manila, Sisal and Indian hemp, etc) and manufactures thereof, including twine
  - (vi) Woollen yarn and hosiery
28. Turpentine and pine oil
- 29 Vehicles and parts thereof (excluding old scrap parts), the following —
  - (i) Aircraft and parts of aircraft; special aircraft materials
  - (ii) Motor vehicles, namely, motor cars, motor cycles and motor omnibuses, vans and lorries and chassis for the same, whether fitted with rubber tyres and tubes or not.
  - (iii) Parts of motor vehicles, including rubber tyres and tubes
- 30 Vitamin A, its preparations and admixtures
- 31 Wood and timber, all sorts, including plywood and other laminated wood but excluding sandalwood, also chests, boxes, crates and other containers made therefrom when exported empty, and parts thereof including shooks

#### Part D.

*(Licences issued by the Export Trade Controller.)*

- 1 Asbestos and manufactures thereof
- 2 Asbestos cement
- 3 Chemicals and chemical preparations, the following —
  - (i) Caoutchoucine.
  - (ii) Ethyl alcohol.
  - (iii) Potassium chlorate.
  - (iv) Pyridine
- 4 Cinematograph films, not exposed.
- 5 Clocks, watches and parts thereof.
6. Coal.
7. Coffee
- 8 Coir, unmanufactured and manufactured.
- 9 Containers made wholly or mainly of any of the metals or alloys specified in item 12 of Part A or in item 20 of Part C, when in use as containers of goods other than those specified in Part C  
*(NB—An article shall be deemed to be made mainly of any of the metals or alloys referred to, if such metal or alloy constitutes the major part of either the bulk or the value of the article)*
10. Derris root and powder.
- 11 Diamonds, precious and semi-precious stones.
- 12 Domestic earthenware and chinaware.
- 13 Dyestuffs, the following:—
  - (i) Synthetic dyestuffs including coal tar derivatives used in any dyeing process

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- (ii) Natural indigo.
- 14 Gall nuts
15. Glass and glassware, all sorts, other than those specified in Parts B and C.
16. Grain, pulse and flour.
- 17 Gums and resins, the following —
  - (i) nil
  - (ii) Gum Damar
18. Hides and skins, tanned or dressed, the following  
East India Kips
19. Kapok.
- 20 Lac, all sorts; also mixtures containing some form of lac as one of the main ingredients
- 20A. Leather manufactures, all sorts, not specified in Part A
- 21 Matches, all sorts
- 22 Mica.
- 23 Oils, animal, all sorts
- 24 Oils, mineral, all sorts (including crude oil, kerosene, fuel oils, lubricating oils, greases, petrol, solvent oils, mineral turpentine, benzine and benzol)
- 25 Oils, vegetable, non-essential, all sorts other than tung oil
- 26 Seeds, the following —
  - (i) Seeds, oilseeds, non-essential, all sorts.
  - (ii) Seeds, other than oilseeds.
27. Paper and pasteboard, all sorts, and stationery.
- 28 Pulp of wood for paper-making.
- 29 Quartz crystals.
- 30 Rubber, raw
- 31 Rubber scrap and waste
- 32 Soaps, washing powders and toilet requisites
33. Spices.
- 34 Starch, dextrine and farina.
- 35 Sugar including molasses
36. Tea.
- 37 Textiles, the following—
  - (i) Artificial silk yarn
  - (ii) Artificial silk manufactures, including mixtures with other textiles or staple fibre
  - (iii) Cotton manufactures, all sorts (including cotton twist and yarn and piecegoods) other than those specified in Part C
  - (iv) Silk, raw cocoons, waste products (including Dupplion) and hand reeled
  - (v) Silk yarn and manufactures, all sorts (including silk hosiery)
  - (vi) Wool, raw, and manufactures, other than woollen yarn and hosiery.
38. Toys and requisites for games and sports.
- 39 Tung oil
- 40 Umbrellas and umbrella fittings
- 41 Waxes of all kinds, including paraffin wax

#### Part E.

*(Licences issued by the Export Trade Controller)*

1. Animal bladders, guts and casings
- 2 Candles of all kinds
- 3 Carbon black
4. Casein

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- 
5. Chemicals and chemical preparations, the following.—
- (i) Cholesterol.
  - (ii) Fluorspar.
  - (iii) Phthalic acid and derivatives.
  - (iv) Picric acid.
  - (v) Radon.
6. Coke, all sorts.
7. Fibres for brushes and brooms.
8. Fruits, nuts and vegetables (including dried, salted or preserved, not canned or bottled).
9. Gums and resins, all sorts, other than Gum Benzoin and Gum Damar.
10. Hair of all kinds and manufactures of hair, other than horse hair and manufactures of horse hair.
11. Hides and skins, raw, other than those specified in Part A; furs and fur skins.
12. Hides and skins, tanned or dressed, and leather, unwrought, all sorts, other than those specified in Parts A and D.
13. Perfumed spirits
14. Magnesite
15. Metals and Ores, the following.—
- (i) Antimony ore
  - (ii) Aluminium ore (Bauxite and Laterite).
  - (iii) Arsenic, ore and metal
  - (iv) Bismuth
  - (v) Cadmium
  - (vi) Chrome ore and metal
  - (vii) Cobalt ore
  - (viii) Columbium.
  - (ix) Ilmenite, Monazite, Rutile, Zircon Kyanite and Sillimanite.
  - (x) Iron ore.
  - (xi) Iron pyrites.
  - (xii) Lithium.
  - (xiii) Manganese ore and Manganese.
  - (xiv) Silver ore, metal, alloys and manufactures.
  - (xv) Strontium
  - (xvi) Tantalum ore and metal.
  - (xvii) Titanium metal.
  - (xviii) Thorium
  - (xix) Uranium.
  - (xx) Zinc ore.
16. Myrobalans and other tanning substances, excluding gall nuts
17. Oilcakes, all sorts.
18. Plastics, manufactured or partly manufactured.
- 18A. Postage Stamps
19. Scrap Cinematograph films.
20. Selenium.
21. Talc.
22. Tallow and stearine, all sorts.
23. Textiles, the following.—
- (i) Cotton, raw and waste.
  - (ii) Jute, manufactures
  - (iii) Jute, raw.
  - (iv) Mesta-fibre.
  - (v) Ramie fibre and piece-goods made therefrom
24. Turkey red oil
- 

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## IMPORT CONTROL IN INDIA.

Import control over a large number of goods was first announced in a notification in the Gazette of India extraordinary on August 23, 1941 and has since been amended from time to time. The controlled goods are classified into parts 'A' and 'B' of the schedule to the notification. In part 'A' are included almost all the goods that are under control already. Part 'B' contains a very large number of fresh items.

Excepting for a few articles such as dyes, newsprint and aluminium, import control has hitherto been confined to goods the imports of which could be curtailed without damage to any essential Indian interests. It is not necessary or practicable in the case of such goods to look beyond the importers and it has been sufficient to allot quotas to them on the basis of their past imports. The principle will be maintained in respect of goods in part 'A' of the schedule.

Extension of control to imports of machinery and other industrial requirements (Part 'B' of the schedule) has arisen not only because of the growing need for the conservation of exchange with difficult currencies but also because supplies, especially from U S A. of many of the goods concerned are becoming increasingly restricted with the result that before allowing export the U S A. Government require certificates to be furnished from the India Government that the goods represent essential requirements.

The Central Government have created for the purpose the post of the Chief Controller of Imports under the Commerce Department. He will be assisted by Import Trade Controllers or by other officers authorised for the purpose. His office is at Imperial Secretariat Buildings, New Delhi.

Applications for certain classes of goods in part 'B' of the schedule should be made in the prescribed form direct to the Chief Controller of Imports, New Delhi. While for the others in part 'B' applications should, for the present, be made to him through the Foreign Trade Controllers, (Imports) at the Ports, who will also continue to be the licensing authorities for goods in part 'A' of the schedule. The Director General of Supply, New Delhi, has been authorised to issue licences for imports for rubber goods in general, mineral oils etc., Advisory Panel on Drugs and Medicines with Colonel Sir R. N. Chopra as Chairman for imports of drugs, Chief Controller of Explosives, New Delhi for imports of gunpowder and explosives.

Importers of goods from the United Kingdom, Australia, Canada and Newfoundland are informed through a recent notification that goods despatched on through consignment from these countries on or after the 1st July 1942, must be individually covered by special import licences. Special licences will in the first instance be valid to cover despatches made during the six monthly period 1st July 1942 to 31st December 1942. Importers should make applications to the appropriate licensing authorities for licences to cover their requirements. They must include in their applications a statement of the gross weight (including packing) in tons (of 2 240 lbs) and lbs of the goods covered by such applications. Any application which does not contain such a statement of weight will not be considered by the licensing authorities.

Importers are also warned that goods, in whatever country they may have originated, will require special licences as from the 1st July 1942 if they are transhipped in, or otherwise on-carried from, any of the countries mentioned.

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**For full process of manufacture of phenyle, read DISINFECTANTS & ANTISEPTICS. Re. 1/12. Industry Book Dept., Shambazar, Calcutta.**

## THE ESSENTIAL DRUGS (CENSUS) ORDER AMENDED

The Essential Drugs (Census) Order, 1941 which has been in force since July 24, 1941 has been amended in the following form

2 In this Order, "essential drug" means a drug specified in the first column of Schedule I annexed to this Order, and "specified quantity" in relation to an essential drug means the quantity specified in the corresponding entry in the second column of the said Schedule

3 Any person engaged in the business of manufacturing or importing drugs or of selling drugs whether wholesale or retail, shall submit to the authority specified in the entry in the second column of Schedule II annexed to this Order corresponding to the area specified in the first column of that Schedule in which he carries on such business, so as to reach that authority not later than the 27th day of each month a return showing the quantity of any essential drug in his possession or under his control within British India on the 20th day of such month

Provided that if the total quantity of an essential drug in the possession or under the control of any person is less than the specified quantity, that person shall not be required to submit a return in respect of that drug

4 Any person engaged in the business of manufacturing or importing drugs, or of selling drugs wholesale, shall keep a record of any purchase or sale made by him of any quantity of an essential drug whether such quantity is less than the specified quantity or not

5 Any person engaged in the business of selling drugs retail shall keep a record of any purchase or sale made by him of an essential drug of which the quantity in his possession or under his control is not less than the specified quantity.

6 The Director General, Indian Medical Services and the Deputy-General, Indian Medical Service (stores) or any person authorised in writing by any person so appointed, may, for the purpose of verifying the correctness of any return submitted or record kept in pursuance of this Order, or otherwise with a view to securing compliances with the provisions of this Order, enter upon and inspect any premises in which the business of manufacturing, importing or selling drugs is carried on and may inspect and take copies of, or of any part of, any records books or accounts kept in relation to such business, whether in pursuance of this Order or otherwise

### SCHEDULE I.

List of drugs and minimum quantities to be declared.

Item	Specified quantity.
Acidum Acetylsalicylicum — — —	2 lbs
Acid Boric — — —	14 lbs
Acid Citricum — — —	14 lbs
Acid Mandelicum (and its salts) — — —	8 ozs
Acriflavina — — —	4 ozs
Adrenalina and preparations — — —	1 oz.    Liquor Adrenalini
	Hydrochloridi
Aether Anaestheticus — — —	5 lbs
Agar — — —	4 ozs
Ammonii Carbonas — — —	1 cwt
Amylis Nitris — — —	50 capsules.
Argentoproteinum — — —	1 oz.

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Item	Specified quantity.
Atropinae Sulphas	1 drachm
Barbitonum	4 ozs
Barbitonum Solubile	4 ozs
Belladonnae Folia	28 lbs
Belladonnae Radix	28 lbs
Bismuthi Carbonas	10 lbs.
Bismuthi Salicylas	10 lbs
Bismuthi Subnitras	10 lbs.
Calci Gluconas	1 lb
Camphora	10 lbs
Chloroformum	10 lbs
Cinchona Febrifuge	1 lb
Cocainae Hydrochloridum	4 ozs
Emetinae Hydrochloridum	1 oz
Ergota Praeparata and preparations	8 ozs
Extractum Hepatis Liquidum (Liver Extract)—	
Oral	10 lbs
Parental	50 ccs
Homatropinae Hydrobromidum	1 drachm
Hydrargyrum and preparations—	
Hydrargyrum	5 lbs
Unguentum Hydrargyri	10 lbs.
Hydrargyri Perchloridum	1 lb
Hydrargyri Subchlorium	1 lb
Hyoscinae Hydrobromidum	1 drachm
Insulnum Including Protamine	5000 units
Insulin (with zinc) Suspension	8 ozs.
Iodum and preparations—	
Iodum	20 lbs
Liquor Iodi Mitis	5 lbs
Liquor Iodi Fortis	1 lb
Ipecacuanha and preparations—	
Ipecacuanhae	8 ozs.
Pulvis Ipecacuanhae et Opil	250 tablets of any strength (stating strength in grams)
Mepacrinae Hydrochloridum (Quina-crine, Atebrin, etc)	12 grams
Naganol or British equivalents such as Antrypol (B D H)	40 ampoules of any dose (stating details of strength in grams)
Neoarsphenamina	250 tablets of any strength
Pamaquin (Plasmoquine, Praequine, etc)	(stating strength in grams).
Percaine	
Phenacetinum	4 ozs
Phenobarbitonum	1 lb
Phenobarbitonum Solubile	4 ozs
Phenol (Acidum Carbolcum pure)	4 ozs
Pituitary Extract (Posterior Lobe)	1 lb
Potassii Bromidum	100 ampoules of any strength
Potassii Iodidum	1 lb

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Item	Specified quantity.
Procaine Hydrochloridum — — —	1 lb.
Quinine Salts — — —	4 ozs
Sodu Iodidum — — —	4 ozs.
Sodu Salicylas — — —	1 lb.
Soluble Hexobarbitone (Evipan Sodium, etc) — — —	7 lbs.
Strophanthin (in solution or in tablet form) — — —	4 ozs
Sulpharsphenamina — — —	60 grains
Sulphanilamide — — —	40 ampoules of any dose (stating details of strength in grams).
Sulphapyridine (M & B 693) — — —	4 oz or 200 tablets of $\frac{1}{2}$ gram each.
Sulphathiazol (Thiazamide, M & B 760) — — —	200 tablets of $\frac{1}{2}$ gram each
Sulphaguanidine — — —	200 tablets of $\frac{1}{2}$ gram each.
Totakuina — — —	200 tablets of $\frac{1}{2}$ gram each 1 lb

The Schedule applies to items of any Pharmacopoeial or other accepted standards whether pure or admixed with any other substance, in bulk or in the form of tablets, ampoules, ointments, etc, including all proprietary brands and trade mark preparations and equivalents of them intended for oral, hypodermic, intravenous or external use

## SCHEDULE II.

Area.	Authority.
Madras Presidency, Central Provinces and Berar and Coorg.	The Deputy Assistant Director General (Medical Stores), Madras
Bombay Presidency, Sind and Ajmer-Merwara.	The Deputy Assistant Director General (Medical Stores), Bombay.
Bengal Presidency, Bihar, Orissa and Assam.	The Deputy Assistant Director General (Medical Stores), Calcutta
United Provinces, Punjab, North-West Frontier Provinces, Delhi and Baluchistan	The Deputy Assistant Director General (Medical Stores), Lahore

Nothing in the order shall be deemed to require any hospital or charitable dispensary to submit any returns, or keep any register in respect of drugs purchased, held or sold by it

## SULPHURIC ACID CONTROL ORDER, 1942.

The following Notification dated the 13th August 1942 issued by the Government of India in the Department of Supply prohibits the sale of Sulphuric acid except through valid licences and the registration of manufacturers The order has been made in exercise of the powers conferred by sub-rule (2) of rule 81 of the Defence of India Rules

1 Short title and extent.—(1) This Order may be called the Sulphuric Acid Control Order, 1942

(ii) It extends to the whole of British India

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## 138 INDUSTRY YEAR BOOK & DIRECTORY, 1943

2. **Definitions.**—In this Order, unless there is any thing repugnant in the subject or context—

(a) "sulphuric acid" means all grades and concentrations of sulphuric acid or oil of vitriol

(b) "Licensing Authority" means the Director General of Supply, New Delhi or any officer appointed by him to perform the duties of the Licensing Authority;

(c) "manufacturer" means a person who manufactures sulphuric acid for sale.

(d) "Form" means a form appended to the order

3. **Prohibition of sale except through valid licences.**—On and after the 1st October 1942

(a) no manufacturer other than manufacturer registered under clause 4 shall sell sulphuric acid, and

(b) no manufacturer registered as aforesaid shall sell or otherwise dispose of sulphuric acid except on the authority of a basic or special sales licence issued under this order by the Licensing Authority

4 **Registration of manufacturers**—(1) Every manufacturer who wishes to sell sulphuric acid shall, on or before the 1st October 1942 make an application for registration in Form SA/A to the Licensing Authority, stating the names and addresses of all persons to whom he supplied sulphuric acid during the calendar year 1941 together with the quantities of each grade supplied. The application shall also state the estimated quantity of sulphuric acid which he expects to manufacture and make available for sale during the period 1st October 1942 to 31st December 1942. Such manufacturer shall from time to time as hereafter directed in writing by the Licensing Authority furnish a statement to the Licensing Authority of the estimated quantities of sulphuric acid which he expects to manufacture and make available for sale during such subsequent period or periods as the Licensing Authority may indicate in the discretion

(2) The Licensing Authority, if he sees fit, shall grant a Registration Certificate in Form SA/B and shall issue a basic sales licence in the same Form stating the quantity of each grade of sulphuric acid which the registered manufacturer may supply during the period specified in the licence and the persons to whom he may supply it

(3) The Licensing Authority may at any time during the currency of the licence rescind or amend the licence without notice by order in writing to the licence holder

5 **Power to fix prices.**—The Central Government may, by notification in the official Gazette fix from time to time the price or prices at which manufacturers shall supply sulphuric acid to consumers and the Licensing Authority shall, in issuing a licence quote the price at which the manufacturer shall supply during the period specified in the licence

6 **Information to consumers of the quantity of sulphuric acid and supplier from whom they may purchase.**—The Licensing Authority shall inform each consumer or person named in a basic sales licence of the name of the manufacturer authorised to supply him with sulphuric acid, together with the quantity of each grade which such manufacturer may supply to him, the period during which and the prices at which the supply shall be made

7 **Application for Special Licence.**—Any consumer or person included in a basic sales licence who wishes to purchase sulphuric acid in excess of the quantities authorised in respect of him by such licence, and any consumer or person not included in a basic sales licence who

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wishes to purchase sulphuric acid shall apply in Form SA/C to the Licensing Authority

**8 Issue of Special Licences.**—The Licensing Authority shall pass such orders on each application under clause 7 as it thinks fit and shall either inform the applicant that his application has been rejected or—

(a) shall issue a licence in Form SA/C for the whole or part of the quantity of sulphuric acid applied for, naming in the licence the supplier from whom the applicant may get his supply or

(b) if the applicant is not already included in a basic sales licence, and if it is considered suitable, include the applicant in one or other of the basic sales licences already issued and shall specify the quantity of sulphuric acid of each grade which may be supplied to him and shall inform the supplier concerned

In exercise of the powers conferred by clause 5 of the order, 1942 the Central Government has fixed until further notice that the prices at which Sulphuric acid of different grades shall be supplied in the areas mentioned in the first column of the subjoined schedule shall not exceed the rates noted against them

### **SCHEDULE.**

Price of Acid per ton.

Name of the area	1550		1750		1840	
	Commer-	Refined.	Commer-	Refined.	Commer-	Refined.
	cial. Rs	Rs	cial. Rs	Rs	cial. Rs	Rs
Bengal & Bihar	145	170	220	245	290	315
United Provinces	150	175	230	255	305	330
Delhi	150	175	230	255	305	330
Amritsar	170	195	255	280	330	355
Rawalpindi	180	205	270	295	345	370
Bombay	150	175	230	255	305	330
Baroda & Hydera-						
bad & C P	160	185	235	260	315	340
Madras & South						
India States	150	175	230	255	305	330

### **THE WHEAT CONTROL ORDER, 1942.**

The Wheat Control Order 1942, has come into force on the first day of May 1942 and prohibits any person from exporting or importing any wheat except under and in accordance with a permit issued in that behalf by the Wheat Commissioner

Applications for permits to export or import wheat during any calendar month shall be made in writing not later than the fifteenth day of the preceding month—

(a) in the case of export and import by rail or by sea, to the Wheat Commissioner; and

(b) in any other case to the Provincial Price Controller and shall contain full and true particulars of the following:—

- (i) name of consignor;
- (ii) name of consignee;
- (iii) quantity and nature of consignment,
- (iv) port or railway station of despatch (including district and province in which situated);
- (v) port or railway station of destination (including district and province in which situated),

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(vi) price at which the wheat included in the consignment has been sold.

Where wheat is exported by rail in accordance with a permit issued by the Wheat Commissioner, the permit shall be returned by the consignor to the Wheat Commissioner on completion of despatch of the quantity therein mentioned with the entries in respect of each consignment showing the quantity despatched and the date of despatch duly certified by the Station Master on the permit

Where wheat is exported by sea in accordance with a permit issued by the Wheat Commissioner, the consignor shall deliver the permit to the Customs Collector who shall return it to the Wheat Commissioner after the consignment has been exported

Where wheat is exported otherwise than by rail or by sea in accordance with a permit issued, by the Wheat Commissioner, the permit shall be disposed of in accordance with such instructions as the Provincial Price Controller may by general order give in this behalf

If it appears to the Wheat Commissioner that a permit issued under the Order is not likely to be utilised or that there are sufficient reasons requiring its cancellation he may cancel the permit and on such cancellation the holder of the permit shall forthwith return it to the Wheat Commissioner

### THE FOODGRAINS CONTROL ORDER, 1942.

Foodgrains Control Order, 1942 extends to the whole of British India, but shall come into force in any Province only on such date as the Provincial Government may by notification in the official Gazette appoint in this behalf

2. In this Order, unless there is anything repugnant in the subject or context—

(a) "foodgrain" means such one or more of the commodities specified in the First Schedule to this Order as the Provincial Government may from time to time by notification in the official Gazette declare to be a foodgrain to which this Order applies,

(b) "Form" means a form as set forth in the Second Schedule to this Order,

(c) "purchase in wholesale quantities" means purchase in quantities exceeding 20 maunds in any one transaction, and includes purchase by any person on behalf of another as a commission agent or as an *arhatiya*,

(d) "sale in wholesale quantities" means sale in quantities exceeding 20 maunds in any one transaction, and includes sale by any person on behalf of another as a commission agent or as an *arhatiya*.

3. No person shall engage in any undertaking which involves the purchase, sale, or storage for sale, in wholesale quantities of any foodgrain except under and in accordance with a licence issued in that behalf by the Provincial Government or by an officer authorised by the Provincial Government in this behalf

Provided further that the Provincial Government or an officer authorised by the Provincial Government in this behalf may by a special or general order exempt subject to such conditions as may be specified in the order, a purchaser other than retail dealer from the operation of the clause

4. Licences issued under this Order shall specify—

(a) the foodgrain or foodgrains in which the licensee may deal,

(b) the place or places at which the licensee may carry on the licensed undertaking

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5 Applications for licences under the Order shall be made to the Provincial Government or to an officer authorised by the Provincial Government in this behalf

6 No person being the holder of a licence issued, or deemed to be issued, under this Order shall contravene any of the conditions mentioned in Form A; and if any such person contravenes any of the said conditions, then without prejudice to any other action that may be taken against him, his licence may be cancelled by order of the Provincial Government or by an officer authorised by the Provincial Government in this behalf

(2) Notwithstanding anything contained in sub-clause (1), the Provincial Government may in special circumstance, without giving any previous notice or without assigning any reason, suspend or cancel a licence issued, or deemed to be issued under this Order

7 Any officer authorised by the Wheat Commissioner for India or the Provincial Government in this behalf may enter upon and inspect any premises in which he has reason to believe that the purchase, sale, or storage for sale, in wholesale quantities of any foodgrain is taking place contrary to the provisions of this Order.

8 Nothing in this Order shall apply to the sale or storage for sale by any person of any foodgrain produced by himself or by his tenant

#### FIRST SCHEDULE

- 1 Wheat and wheat products (including *ata*, *maida*, *rawa*, *suji* and *bran*) (*Triticum Spp* inclusive of the different species).
- 2 Rice in the husk (Paddy) (*Oryza Satava*)
- 3 Rice husked (*Oryza Satava*).
- 4 Maize (*Zea*, *mayas*)
- 5 Jowar (*Sorghum vulgare*)
- 6 Bajra (*Pennisetum typhoides*)
- 7 Gram, any variety (*Cicer arietinum*)
- 8 Barley (*Hordeum vulgare*)
- 9 Ragi or mandua (*Eleusine coracana*)
- 10 Rahar (*Cajanus indicus*)
- 11 Masur (*Lens esculenta* or *Ervum Lens*).
- 12 Kodra (Kodon) (*Paspalum scrobiculatum*).

#### SECOND SCHEDULE.

##### Form A.

Subject to the provisions of the Foodgrains Control Order, 1942, and to the terms and conditions of this licence, \_\_\_\_\_ is/are hereby authorised to purchase, sell, or store for sale, in wholesale quantities all or any of the under-mentioned foodgrains:—

2 The licensee shall carry on the aforesaid business at the following places —

3 The licensee shall maintain a register of daily accounts for each of the foodgrains mentioned in paragraph 1 showing correctly—

- (a) the opening stock on each day,
- (b) the quantities received on each day showing the place of origin,
- (c) the quantities delivered or otherwise removed on each day showing the places of destination if consigned to places outside the district; and

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(d) the closing stock on each day

4 The licensee shall in respect of each of the foodgrains mentioned in paragraph submit to the officer issuing this licence so as to reach him not later than the fifteenth day of each month, a true return in Form C of the Second Schedule to the Foodgrains Control Order, 1942 of stocks, receipts and deliveries of the foodgrain during the preceding month

5 The licensee shall not in one transaction, sell any of the foodgrains mentioned in paragraph

(i) in quantities exceeding 20 maunds, to any person who does not hold a licence therefor under the Foodgrains Control Order, 1942, nor is otherwise authorised to purchase the foodgrain in wholesale quantities, or

(ii) in quantities exceeding 2 maunds to any person who is not a bona fide retail dealer or miller

6 The licensee shall issue to every customer a correct receipt or invoice as the case may be giving his own name, address and licence number, the name, address and licence number (if any), of the customer, the date of transaction, the quantity sold, the price per maund and the total amount charged, and shall keep a duplicate of the same to be available for inspection on demand by any authorised officer of Government

7 The licensee shall prominently display at each of the places mentioned in paragraph a correct list written in the language of the locality of the prices of all foodgrains in which he deals

8 The licensee shall give all facilities at all reasonable times to any authorised officer of Government for the inspection of his stocks and accounts at any shop, godown or other place used by him for the storage or sale of any of the foodgrains mentioned in paragraph 1 and for the taking of samples of such foodgrain for examination

9 The licensee shall comply with any directions that may be given to him by the Provincial Government in regard to the purchase, sale, or storage for sale, of any of the foodgrains mentioned in paragraph.

Signature of the officer  
issuing the licence

Dated the \_\_\_\_\_ 194

Note—The licensee's attention is drawn to clause 6 of the Foodgrains Control Order, 1942

### Form B.

(See clause 5)

- 1 Applicant's name \_\_\_\_\_
- 2 Do profession \_\_\_\_\_
- 3 Do residence \_\_\_\_\_
- 4 Situation of applicant's place of business with particulars as to  
No of house, Mohalla, town or village and Police Station and District  
\_\_\_\_\_
- 5 How long the applicant has been trading in foodgrains (particulars to be given for each foodgrain)  
\_\_\_\_\_
- 6 Quantities of foodgrains handled annually during the past 3  
years \_\_\_\_\_
- 7 Names of foodgrains in respect of which licence is required  
\_\_\_\_\_

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8 Income-tax paid in 1939-40  
Do 1940-41

I declare that the following quantities of the foodgrains specified above are in my possession this day and are held at the places noted against them —

I have carefully read the conditions of licence given in Form A of the Second Schedule to the Foodgrains Control Order, 1942, and I agree to abide by them

(a) \*I have not previously applied for such licence in this district for any of the foodgrains specified in para. 7 above

(b) \*I applied for such licence in this district for \_\_\_\_\_ on \_\_\_\_\_ and/was not granted a licence on \_\_\_\_\_

\*Strike out the words which are not applicable

Dated

Signature of Applicant

District

### THE FOODGRAINS (FUTURES AND OPTIONS PROHIBITION) ORDER, 1942.

The Foodgrains (Futures and Options Prohibition) Order, 1942 extends to the whole of British India, and has come into force since the 28th day of May, 1942

This order lays down that save with the permission of the Central Government or of an officer authorised by the Central Government in this behalf, enter into any "futures in foodgrain," or pay or receive, or agree to pay or receive, any margin in connection with any such futures, enter into any options in foodgrain

Every futures in foodgrain entered into before the commencement of this Order and outstanding for settlement shall be settled at the prevailing market rate applicable to the agreement at the close of transactions on the 27th May 1942.

All options in foodgrain entered into before the commencement of this Order and remaining to be performed whether wholly or in part shall be void within the meaning of the Indian Contracts Act, 1872 and shall not be enforceable by law.

No person being the owner or occupier of any premises shall knowingly permit such premises to be used—

For the making of any futures or options in foodgrain, or the payment or receipt of any margins, prohibited by clause 3 or for the settlement of any futures in foodgrain in contravention of the provisions of clause 4, or for the performance of any options in foodgrain declared void by clause 5

The Central Government may by a notification in the official Gazette appoint such persons as it thinks fit to be Inspectors for the purposes of this Order within such local limits as it may assign to them respectively.

Prepare ghee, butter, casein, condensed milk, etc. at home. MILK & MILK PRODUCTS explains the way. Re. 1/12. Industry Book Dept., Calcutta.

## COTTON TEXTILES SIZING AND FILLING CONTROL ORDER, 1942.

The following Notification dated the 8th August 1942 has been issued by the Government of India in the Department of Commerce —

1 Short Title This Order may be called the Cotton Textiles Sizing and Filling Control Order, 1942

2 Definition In this Order, unless there is anything repugnant in the subject or context, "cotton piece-goods" includes any woven or knitted fabric or material containing more than 90 per cent by weight of cotton after removal of any size or filling

3 Sizing or filling No person shall on or after the 1st day of September 1942, manufacture or process, or cause to be manufactured or processed, any cotton piece-goods which contain any sizing or filling material, or both, of any description, exceeding in the aggregate 20 per cent of the weight of the cotton in the cloth

4 No person shall on or after the 1st September, 1942, sell or otherwise dispose of or purchase or otherwise acquire any cotton piece-goods which have been manufactured, processed or finished in contravention of clause 3

5 Tests For the purposes of this Order, the proportion of sizing or filling material, or both relative to the weight of the cotton in any finished cotton piece-goods shall be determined by such test as the Central Government may, from time to time, prescribe by order in writing and the result of such test shall be conclusive

6 Inspection of premises Any officer authorised by the Central Government in writing in this behalf may, enter upon and inspect any premises in which he has reason to believe that cotton piece-goods are manufactured or processed or sized or filled in contravention of the provisions of this Order, and may ask for any information relating to the manufacture, processing, sizing or filling of such piece-goods in those premises

7 Existing contracts Nothing in this Order shall apply to or affect the manufacture, processing, sizing or filling of any cotton piece-goods, which is in pursuance of any firm contract entered into before the 8th August, 1942, if particulars of such contracts are furnished to the Central Government in the Department of Commerce not later than the 28th August, 1942, but all contracts not saved by the provisions of this clause shall, in so far as they are at variance with the provisions of this Order, be void

## RUBBER MANUFACTURES CONTROL ORDER, 1942.

The following Notification dated the 26th August 1942 has been issued by the Government of India in the Department of Supply —

1 Short title and commencement—(i) This Order may be called the Rubber Manufactures Control Order, 1942

(ii) It shall come into force on 1st September 1942

2 Interpretation—In this Order, 'rubber' means any crude rubber or liquid latex or gutta percha or balata whether crude, waste or reclaimed

3 Prohibition of production of certain articles—No person shall produce any article of any of the descriptions specified in the first schedule to this Order, any component part of any such article, if such article or component part contains any rubber

Provided that this clause shall not apply to the production of any article or component part of any article produced under a special or

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general direction issued by the Central Government in the Department of Supply

4 Restriction of production of certain articles—No person shall produce any article of the description specified in the second schedule to this Order, or any component part of any such article, if such article or component part contains any rubber except under the authority of and in accordance with a licence granted, or a special or general direction issued, by the Controller of Rubber Manufactures, Directorate General of Supply, Department of Supply

5 Application for and grant of licences—(1) All applications for permission to produce any of the articles detailed in the second schedule to this Order shall be made to the Controller of Rubber Manufactures, Directorate General of Supply, New Delhi.

(ii) The Controller of Rubber Manufactures shall pass such orders on each application as he thinks fit and shall either inform the applicant that his application has been rejected or shall issue a licence for all or any of the articles covered by the application

(iii) The holder of any licence shall comply with the terms thereof.

#### FIRST SCHEDULE

*(Articles the production of which is prohibited)*

1 Flooring, mats, paving, etc—(a) Flooring, (b) Mats or matting, (c) Stair nosing, risers or trades, (d) Goving, (e) Blocks (road or paving), (f) Traffic lines and studs other than reflector studs, (g) Wall covering

2 Miscellaneous house-hold requisites, etc—(a) Blind cord acorns, (b) Bags (hat shaper), (c) Buttons, (d) Carpet binders, (e) Chair leg pads, (f) Confectionery moulds, (g) Castor Cups, (h) Cistern pulls, (i) Collects (suspender or other), (j) Door stops, (k) Draught excluders, (l) Fly swatters, (m) Laundry bags, (n) Nails (rubber-headed), (o) Hat-making rings, (p) Umbrella rings, (q) Sink protectors or swillers, (r) Trays (soap, ice or other), (s) Teapot stands, (t) Window wedges, (u) Sponges, (v) Table top coverings, (w) Straps or carriers, (x) Curtain rails, (y) Hair and shaving brushes, (z) Nail brushes

3 Clothing, etc—(a) Bathing caps, (b) Dress Shields, (c) Dressing caps, (d) Elbow pads, (e) Paddlers, (f) Aprons other than industrial, (g) Gloves household, (h) Hair grips, (i) Hair nets

4 Sundries—(a) Combs, (b) Needles (knitting or netting), (c) Number plates, (d) Pluches (tobacco), (e) Truncheons, (f) Hammers or mallets

5 Rubber proofed materials—(a) Fancy rubberised fabrics, (b) Rubberised felts for carpet underlay or automobile trade

6 Sports Goods—(a) Toys, (b) Balloons (toy), (c) Balls (other than golf, hockey, tennis, lacrosse or squash racquets), (d) Catapult strip, (e) Cricket sheet (spiked), (f) Dog biscuits, bones, etc., (g) Golf ball cleaners, (h) Golf tees, (i) Jig-saw puzzles, (j) Li-los, (k) Rings (quoit and tenikoit), (l) Grips or handles, (m) Strips grips, (n) Table tennis sheeting, (o) Badminton shuttles

#### SECOND SCHEDULE

*(Articles the production of which is restricted)*

1 Sports Goods—(a) Balls (golf, hockey, tennis, lacrosse or squash racquets), (b) Billiard table cushions or strips, (c) Bladders for foot-balls, netballs, water polo balls, punch balls, etc., (d) Golf ball tape or thread.

2 Miscellaneous—(a) Gear box covers (b) Handle bar grips, (c) Hot water bottles, (d) Mudguards, (e) Solid tyre comprising— (i) Carriage and Rickshaw tyre, (ii) Pram tyre, (iii) Trolley or truck

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tyres, (f) Cycle pedal fittings, (g) Rubberised motor hood cloth, (h) Contraceptives, (i) Gloves (Surgical and Industrial), (j) Teats and valves for feeding bottles

3 Footwear (a) Soles, heels or tips, (b) Any type of footwear having rubber soles, heels or tips

4 Industrial goods (a) Solid rubber sheeting, (b) Insertion rubber sheeting

### THE RUBBER CONTROL ORDER, 1942.

The following Notification dated the 24th March 1942, has been issued by the Government of India in the Department of Commerce:—

1 Short title and commencement—Rubber Control Order 1942, has been in force since applies to the 1st April 1942

2. In this Order, unless there is anything repugnant in the subject or context

(a) "the Act" means the Indian Rubber Control Act, 1934 (XXVIII of 1934),

(b) "approved" means approved by the Committee for the purpose of granting permits for sale or transfer of rubber in the Indian market,

(c) "Committee" means the Indian Rubber Control Committee constituted under clause 3;

(d) "dealer" means any person who deals in rubber (not being goods manufactured from rubber) or holds stocks thereof;

(e) "estate" means any area over 100 acres administered as one unit which contains land planted with rubber plants,

(f) "Form" means a form appended to this Order,

(g) "manufacturer" means any person engaged in the manufacture of articles containing rubber and includes his representative or agent;

(h) "rubber" means the following, namely,

(i) crude rubber, that is to say, rubber prepared from the leaves, bark of latex of any rubber plant,

(ii) the latex of any rubber plant, whether fluid or coagulated, in any stage of the treatment to which it is subjected during the process of conversion into rubber;

(iii) latex (dry rubber contents) in any state of concentration

3 There shall be constituted for the purposes of this Order a Committee to be called the Indian Rubber Control Committee, consisting of—

(a) the members of the Indian Rubber Licensing Committee constituted under the Act, and

(b) one person to be nominated by the Association of Rubber Manufacturers in India, and the Chairman of the Indian Rubber Licensing Committee shall be its Chairman

(2) So far as they are not inconsistent with this Order, rules made under section 10, and by-laws made under section 6, of the Act shall apply *mutatis mutandis* in relation to the Indian Rubber Control Committee and the sub-committees appointed under this Order

4 The Committee may appoint such sub-committees and such executive officers as may be necessary for the efficient performance of the duties imposed upon it by this Order and may prescribe the procedure to be followed by such sub-committees in functioning for the purposes of this Order,

Provided that sub-committees or executive officers appointed by the Indian Rubber Licensing Committee constituted under the Act shall be deemed to have been duly appointed under this Order.

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Provided further that the prescribed procedure to be followed by such sub-committees shall include a provision for reference to the Committee of any point upon which opinion in the sub-committee may not be unanimous.

5. (1) The Committee shall—

(a) approve estates and dealers for the purpose of this Order and maintain a register of approved estates and dealers;

(b) receive the permits sent by the manufacturers after utilisation and check them and the endorsements thereon with the copies of permits, sent by the Controller of Rubber Manufactures,

(c) submit to the Central Government in the Commerce Department quarterly returns on the working of this Order,

(d) submit to the Central Government in the Commerce Department so as to reach that Department on or before the fifteenth day of each month beginning with the 15th May 1942, a report showing—

(i) the stocks of all grades of rubber held by each approved estate or dealer on the last date of the month for which returns of stocks have been last received by the Committee distinguishing clearly between the grades which are suitable or required for manufacture in India and those which are not, and

(ii) an estimate of all grades of rubber expected to be available for distribution in the three months following the date of the submission of the report;

(e) carry out such other functions in respect of this Order as the Central Government may from time to time assign to it

(2) The Committee may—

(a) make rules consistent with this Order to regulate the admission or removal of an estate or dealer to or from the register of approved estates or dealers,

(b) inspect approved estates or premises of approved dealers,

(c) examine consignments of rubber sent in pursuance of a permit;

(d) reject consignments which are not suitable or are not of the required grade,

(e) ensure that consignments are duly despatched and delivered,

(f) require approved estates or dealers to submit such returns at such intervals and on such occasions as the Committee may prescribe

(3) All rules made under sub-clause 2 (a) shall be subject to the previous sanction of the Central Government

6 All questions which may come before the Committee at any meeting or by circulation of papers shall be decided by a majority of votes.

7. (1) Any manufacturer wishing to purchase or otherwise acquire rubber in the Indian market shall apply in Form A to the Controller of Rubber Manufactures

(2) The Controller of Rubber Manufactures may in his discretion reject any application made under sub-clause (1), in which case he shall inform the applicant, or issue to the applicant, upon payment of the fee prescribed in clause 8, a permit in Form B for the purchase of such quantity of rubber, and subject to such conditions, as he may deem fit to specify in the permit.

(3) The manufacturer to whom a permit has been issued under this clause shall have it endorsed by the approved estates or dealers from whom he purchases or otherwise acquires rubber from time to time in pursuance thereof, and after the permit has been utilised, send it to the Committee

(4) The Controller of Rubber Manufactures shall send to the Committee a copy of every permit issued by him under this clause

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(5) Permits issued under this clause shall cease to be valid on the expiry of three months from the date of issue

8 (1) There shall be paid by the manufacturer for every permit in Form B a fee at the rate of two annas and six pies for every hundred pounds, or part thereof, of rubber covered by the permit, but the manufacturer shall be entitled to recover the amount *pro rata* from the approved estates and dealers from whom he purchases or otherwise acquires rubber from time to time in pursuance of the permit

(2) The fee shall be credited to the accounts of the Indian Rubber Licensing Committee constituted under the Act

8A (1) Any manufacturer holding stocks of rubber produced by him shall, before using such rubber for purposes of manufacture, apply every month in Form BB to the Controller of Rubber Manufactures, Directorate General of Supply, New Delhi

(2) The Controller or Rubber Manufactures may reject any application made to him or grant an authority to the manufacturers to use such rubber under such conditions as he may deem fit. In either case, he shall inform the applicant of the action taken

9 No manufacturer shall manufacture, process, sell or otherwise dispose of stocks of raw rubber held by him on the 1st April 1942, or shall sell or otherwise dispose of raw rubber purchased and in transit or awaiting delivery on that date except on the written authority of the Controller of Rubber Manufactures, Directorate General of Supply, New Delhi, to whom application in this respect should be made on Form C

9A *Restriction of manufacture from, or disposal of rubber imported after the 1st April, 1942*—No manufacturer shall manufacture, process, sell or otherwise dispose of stocks of rubber imported by him after the 1st April 1942 except on the written authority of the Controller of Rubber Manufactures, Directorate General of Supply, New Delhi, to whom application in this respect shall be made on Form D within seven days of the arrival of such imported stocks

10 On and after the 1st April 1942—

(a) no person shall sell or otherwise transfer to a manufacturer in the Indian market any rubber except through an approved estate or dealer, (ii) no approved estate or dealer shall sell or otherwise transfer to a manufacturer in the Indian market any rubber except under the authority of and in accordance with the conditions contained or incorporated in a permit granted by the Controller of Rubber Manufactures

11 If any dispute arises between an approved estate or dealer on the one hand and a manufacturer on the other concerning the supplies of rubber, the dispute shall be referred to the Committee which shall arbitrate between the parties and make such award thereon as it may think proper

12 The Central Government in the Supply Department shall publish from time to time in the Official Gazette list of manufacturers in India

13. No person shall cut out any rubber plant for the purpose of replanting or of planting other crops or for any other reason except under the authority of and in accordance with the conditions contained or incorporated in an order in writing issued by the Committee

14 Every approved estate or dealer shall notify to such officer as may be authorised by the Committee in writing in this behalf all places used by it or him for growing rubber or for storing the same or for preparing the same for sale, and shall give to such officer every facility for inspecting such places

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(2) Any officer authorised by the Committee in writing in this behalf may enter upon and inspect any estate or premises in which he has reason to believe that rubber belonging to an approved estate or dealer is kept for sale or sold.

15 Where any permit is revoked, the person to whom it was granted shall forthwith return it to the authority which granted it

16. The Committee may delegate to sub-committees or executive officers appointed under clause 4 or such officer as it may authorise in writing in this behalf, such powers as seem fit for the proper working of this Order.

17 Any estate or dealer or manufacturer aggrieved by any order, decision or award of the Committee may appeal to the Central Government within thirty days from the date thereof and the Central Government may on such appeal cancel, modify or suspend any order, decision or award of the Committee

Any manufacturer aggrieved by any order to decision of the Controller of Rubber Manufactures may appeal to the Central Government within thirty days from the date thereof and the Central Government may on such appeal cancel, modify or suspend any order or decision of the Controller of Rubber Manufactures

The Central Government direct that no person shall buy or sell raw rubber of the grade and quality specified in the second column of the Table hereto annexed at any place specified in the corresponding entry of the third column of the said Table at a price different from that specified in the corresponding entry in the fourth column of the said Table .

Table.

Serial No	Grade and Quality of Raw Rubber.	Place	Price (F O. B. or F. O. R ).
1	RMA IX	Port of Cochin	Rs 71-8-0 per 100 lbs.
2	RMA 1	Ditto	Rs. 70-8-0 per 100 lbs.
3	RMA 2	Ditto	Rs 69-8-0 per 100 lbs.
4	RMA 3	Ditto	Rs 68-0-0 per 100 lbs.
5	RMA 4	Ditto	Rs 67-8-0 per 100 lbs.
6	RMA 5	Ditto	Rs. 66-8-0 per 100 lbs.
7	Off grades	Ditto	Rs. 64-8-0 per 100 lbs.
8	Froth Sheet	Ditto	Rs 62-8-0 per 100 lbs.
9	Clean Curly scrap No. 1.	Ditto	Rs 55-8-0 per 100 lbs.
10	Clean Curly scrap No. 2	Ditto	Rs. 50-8-0 per 100 lbs
11	Shell scrap	Ditto	Rs 45-8-0 per 100 lbs.
12	No. 1 Latex crepe	Ditto	Rs 72-12-0 per 100 lbs.
13	No 2 Latex crepe	Ditto	Rs 70-12-0 per 100 lbs.
14	Any of the grades or qualities specified in Serial Nos 1 to 14.	Any place other than the Port of Cochin.	Such prices as the Provincial Government may determine, in consultation with the Indian Rubber Control Committee having regard to the normal relation between the prices of the grade or quality concerned at such place and at the Port of Cochin



## INDIAN TEA CONTROL (AMENDMENT) ORDINANCE, 1942.

The Indian Tea Control (Amendment) Ordinance, 1942, published in the Gazette of India Extraordinary, dated the 1st September 1942, to amend the Indian Tea Control Act 1938, for the purposes hereinafter appearing

1 Short title and commencement—(1) This Ordinance may be called the Indian Tea Control (Amendment) Ordinance, 1942.

(2) It shall come into force at once

2 Amendment of section 17, Act VIII of 1938—(1) In section 17 of the Indian Tea Control Act, 1938 (VIII of 1938)—

(a) after sub-section (2), the following sub section shall be inserted, namely —

“(2A) A person to whom a special export licence has been issued in lieu of an export licence covering the export of tea in the financial year ending on the 31st day of March, 1942, may transfer the licence with all rights conferred thereby to a person or persons nominated by him, but a licence once so transferred shall not be further transferable”

(b) to sub-section (3) the following proviso shall be added, namely —

“Provided that a special export licence issued in lieu of an export licence covering the export of tea in the financial year ending on the 31st day of March, 1942, shall not cease to be valid on the 31st day of May of the year in which it was issued, but shall continue to be valid up to the 31st day of March, 1943”

(2) The amendments made by sub-section (1) shall be deemed to have taken effect on the 1st day of April, 1942

## THE SUGAR CONTROL ORDER, 1942 : (REVISED).

The following Notification dated the 29th June 1942 has been issued by the Government of India in the Department of Commerce —

1 (1) This Order may be called the Sugar Control Order, 1942.

(2) It extends to the whole of British India.

(3) It shall come into force at once

2 In this Order, unless there is anything repugnant in the subject or context

(a) “Controller” means the person appointed as the Sugar Controller for India by the Central Government, and includes any person authorised by the said Controller to exercise all or any of the powers of the Controller under this Order.

(b) “dealer” means a person dealing in the purchase, sale or distribution of sugar.

(c) “ex-factory price” means the price of sugar, inclusive of excise duty, packed in accordance with the usual market practice, and loaded at the buyer's option, on buyer's carts or lorries, or into railway wagons at the railway station or siding generally used by the producer, and all incidental charges, including those for siding and forwarding, being on account of the ex-factory seller

(d) “producer” means a person carrying on the business of manufacturing sugar with the aid of power and using vacuum pans or evaporators

(e) “recognised dealer” means a dealer who has been recognised by the Controller for the purposes of this Order

3 No producer shall, after such date as the Controller may notify in this behalf, dispose of, or agree to dispose of, or, in pursuance of

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any agreement entered into on or before such date make delivery of, any sugar, except—

- (i) to or through a recognised dealer, or,
- (ii) to a person specially authorised by the Controller to acquire sugar on behalf of the Central Government or of a Provincial Government.

4 The Controller may, by general or special order, prohibit, or limit to such quantities as may be specified in the order, the manufacture by any producer or by producers generally of such types or grades of sugar or sugar products as the order may specify, and no producer to whom such order applies shall manufacture any sugar or sugar products in contravention thereof.

5 Every dealer shall comply with such directions regarding the sale or distribution of sugar as may be given to him by the Controller.

6 (1) The Controller may, from time to time, fix the prices at which any sugar made in India may be sold

(2) Where such prices have been fixed—

(a) the price at which any sugar may be sold for delivery otherwise than *ex-factory* shall be the price fixed under sub-clause (1) for sale *ex-factory* plus such charges in respect of transport to or in specified areas and other incidental charges as are approved by the Controller.

(b) no person shall sell or purchase or agree to sell or purchase any sugar at a price different from that fixed under the provisions of this clause

(c) no sugar shall be delivered or accepted in pursuance of an agreement entered into before such fixing of prices which provides for the payment of a price different from that fixed under the provisions of this clause unless the agreement is by consent of parties so revised as to substitute for the price originally agreed the price so fixed.

7 (1) The Controller may, from time to time,

(i) allot quotas for the requirements of any specified Province or other area, or of any specified market, and

(ii) issue directions to any producer to supply sugar to such areas or markets or such persons or organisations, in such quantities, of such types or grades, at such times and in such manner as may be specified by the Controller.

(2) Every producer shall, notwithstanding any existing agreement with any other person, give priority to, and comply with, any directions issued to him under sub-clause (1).

8 (1) No sugar in consignments of more than one bag shall, after such date as the Controller may notify in this behalf, be offered for transport by rail by a consignor or accepted by a Railway for transport except under a permit issued by the Controller in such form and subject to such conditions and in respect of such areas as he may from time to time prescribe,

Provided that this clause shall not apply to the transport by rail of sugar (a) by a bona fide traveller as part of his personal luggage, or (b) under and in accordance with Military Credit Notes, or (c) under and in accordance with a permit issued by a Provincial authority before the date of this notification

(2) A permit issued in pursuance of sub-clause (1) shall be returned by the consignor to the Controller on completion of despatch, or on expiry of the period of its validity, whichever is earlier, with the particulars of actual despatches in the prescribed form, and certified by the Station Masters concerned.

(3) For the purposes of this clause "sugar" means sugar manufactured by any process, including sugar made in vacuum pan factories

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from cane or *gur* or palmyrah jaggery, as well as *khandsari* sugar and *Bura*, but excluding powdered jaggery and sugar candy (*masri*)

9 The Controller may, by notification in the official Gazette, make rules for carrying into effect the purposes and objects of this Order.

10 Notwithstanding the supersession of the Sugar Control Order, 1942, dated the 14th April, 1942, all notifications, orders and directions issued thereunder shall, so far as they are not inconsistent with this Order, be deemed to have been made hereunder.

#### DIRECTIONS TO RECOGNISED DEALERS

*Recognised dealer's selling price and incidental charges* When a recognised dealer sells sugar wholesale (that is, in units of not less than a bag which is usually of 2 maunds and 30 seers), he shall charge a price which shall comprise the items named below

- (i) The *ex-factory* price,
- (ii) The railway freight *actually paid* by him,
- (iii) The octroi and other local taxes, *actually paid* by him,
- (iv) The incidental charges (comprising expenditure on local cartage, godown charges, insurance, interest, brokerage, establishment and shortage in weight) *actually incurred* by him, subject to a maximum limit of 4 annas per maund, and
- (v) If the recognised dealer is operating as a wholesale stockist, the dealer's profit, subject to a maximum of one anna per maund

Provided that (a) no recognised dealer shall be entitled to any profit under item (v) if he has been paid any commission, brokerage, rebate or other form of remuneration by the seller, and (b) the limits prescribed under items (iv) and (v), namely, 4 annas and 1 anna, respectively, are not exceeded after taking into account all intervening transactions between the sale of sugar by the producer and its distribution to a retail dealer

*Duties of recognised dealers*—(i) The recognised dealer shall see that sugar is sold by him to persons previously established in sugar business and for bona fide trade purposes and not for purposes such as hoarding or speculation

(ii) He shall not withhold stocks from the market and shall assist the steady flow of sugar from the factory to the consumer, by distributing the stocks fairly and evenly among stockists in the various consuming markets

(iii) He shall not demand, directly or indirectly, a price other than the fixed control price

(iv) He shall take all possible measures to see that sugar sold by him is distributed at control prices whether in British India or in the Indian States

(v) He shall be responsible for the sugar sold by him conforming to such general or special directions as may be issued by the Government concerned or the Controller in regard to its transport or the area in which it is to be distributed

(vi) He shall bring to the notice of the Government concerned and the Sugar Controller cases where he has reason to believe that the Sugar Control Order is not observed by his suppliers or buyers

*Records to be maintained and returns to be supplied*—The recognised dealer shall maintain such records of purchase, sale, stocks and prices of sugar and shall submit such returns as may be prescribed by the Government concerned or the Controller. The records shall be open to inspection by persons authorised in this behalf by the Government concerned or the Controller

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## WAR RISKS (GOODS) INSURANCE AMENDMENT ORDINANCE, 1942.

The text of the above Ordinance is published in the Gazette of India Extraordinary, dated the 11th April 1942. The Ordinance further amends the War Risks (goods) Insurance Ordinance, 1940 and has been in operation since the date of its promulgation.

According to the Ordinance, the expression "war risks" in section 2 of the Ordinance has been extended to cover damage resulting from destructive action taken by or under orders of Government in order to deny facilities to the enemy.

The second amendment extends to cover on a compulsory basis to goods owned by firms carrying on business in British India which are situated in the State area inside the Cochin port limits and also the area inside the boundaries of the municipal committees of Ernakulam and Mattancherry. The original Ordinance extended only to British India.

Another proviso is that where the rate of premium is charged in respect of a quarter, power has been taken to charge the higher rate from persons who may have already taken out policies at the lower rate.

## WAR RISKS (FATORIES) INSURANCE ORDINANCE, 1942.

This Ordinance promulgated on April 7, 1942 provides that any person who effects insurance under the Ordinance will be held covered with effect from 1st April, 1942. It has been effective in British India, Baluchistan and certain territories outside British India.

The main features of the Ordinance are —

It covers all damage to plant and machinery and also buildings. Buildings for the purpose of insurance include all buildings, residential or otherwise, situated within two miles of a factory and used for the purposes of the factory. Damage also includes that resulting from destructive measures taken by or under orders of Government with a view to denying facilities to the enemy.

The Ordinance applies to all factories situated in British India and coming under the Factories Act, as also premises deemed as factories within the definition of a factory in the Factories Act, 1939, 1940 and 1941, including even works in course of construction which, when completed, will become factories. The basis of valuation will be the actual value of factory buildings and factory plant and machinery on the date of application. The premium payable will be a single premium payable in instalments, and the cover provided in return is available upto 31st March, 1944. Government's liability to pay compensation, however, is limited to 80 per cent of the damage, the remaining 20 per cent or Rs 1,000, whichever is greater, requiring to be borne by the insured himself. The responsibility to insure is the owner's, but where the owner and the occupier are different, the occupier must obtain cover as the agent of such owner, if the latter does not insure.

The Central Government may, at its option, elect either to pay, within the limits of the liability assumed by the Central Government (i.e., 80 per cent of the value insured) and in such manner and by such instalments as the Central Government may think fit, the cost necessary to restore the property, as far as practicable, to the condition in which it existed before the occurrence of the damages or to

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compensate, within the aforesaid limits, for the loss in value ascertained on the basis of values and prices ruling at the time at which the policy of insurance was taken out, or at which the loss occurred, whichever is less, suffered by the property as a result of the damage, after due allowance has been made for depreciation during the current period of insurance cover

The Government may prescribe different rates of premium in respect of (a) factories established after the inauguration of the scheme, (b) property insurable under this Ordinance which consists of restorations or reconstructions of property insurable under the Ordinance which consists of restorations or reconstructions of property appertaining to a factory, (c) property insurable under the Ordinance which consists of restorations or reconstructions of property insurable under the Ordinance which has, after the inauguration of the scheme, suffered damage or destruction arising from a war risk

Exemption from the provisions of Section 5 of the ordinance is granted to any premises which have at any time after 31st December, 1938 been a *factory* and which have been dismantled and to any premises including the precincts thereof which are in part a factory and in part used for the purposes of another trade or business, the number of workers ordinarily working on the factory part of the premises being less than one-fifth of the number of persons employed on the other part of the premises for the purposes of the other trade or business

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### INDUSTRIAL STATISTICS ACT, 1942.

The above Act has been enacted to facilitate the collection of statistics of certain kinds relating the industries. According to this Act the Provincial Government may direct that statistics should be collected relating to factories —(1) prices of commodities, (2) attendances, (3) living conditions including housing, water supply and sanitation, (4) indebtedness, (5) rents of dwelling houses, (6) wages and other earnings, (7) provident and other funds provided for labour; (8) benefits and amenities provided for labour, (9) hours of work, (10) employment and unemployment, (11) industrial and labour disputes. The Provincial Governments are also empowered to appoint an officer to be the statistics authority for the purposes of the collection of any statistics under this Act. Various penalties are prescribed for false statements or withholding statements by anybody approached for statistics under the provisions of the Act

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### PAPER CONTROL ORDER.

The Paper Control Order promulgated and enforced by the Govt of India by the middle of November, 1942, specifically imposes restrictions on the printing, making or publishing of any directory, posters, advertising circular, etc. The Order does not apply to publication of newspapers as defined in the Newspaper Control Order, 1942. Any new newspaper, news bulletin, magazine or periodical can not be published without the permission of the Govt of India obtained through the Paper Production Commissioner. The Order also prohibits the printing of picture post cards or greeting cards for purposes of retail selling, the publishing of any calendar containing a greater weight of paper than four ounces, the printing of gramophone or advertising show cards. The Order, however, does not prevent the distribution of circulars, trade catalogues, stocks, shares, insurance particulars, etc

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# COMMERCIAL ASSOCIATIONS

CONNECTED WITH INDIAN TRADERS.

**T**HERE are a number of commercial organisations such as the Chamber of Commerce, trade associations and the planters' associations to safeguard the interests of the commercial community and give expression to their grievances to the Government of India and the Provincial Governments as well. One of the most important functions they have to perform is to express their opinion on the various measures adopted by the Governments as are likely to wield considerable influence over the commercial, industrial and economic developments of the country. The Central and Provincial Governments also generally invite the views of the leading Chambers of Commerce and Trade Associations before adopting any measures of fundamental importance to the commercial public. The membership of the most prominent of these associations is mainly restricted to European merchants though open to Indians also, but a recent development in progress is the constitution of Indian Chambers of Commerce to focus the commercial sentiment from the Indian point of view. Chief among these are Indian Merchants' Chamber in Bombay, Bengal National Chamber of Commerce in Calcutta, South Indian Chamber of Commerce in Madras, etc., etc. The membership of most of these bodies is confined to the province or city where their head-quarters are situated, but they maintain close touch with similar organisations at other trade centres. The European Chambers of Commerce are mostly affiliated to the Associated Chambers of Commerce in India while the Indian Chambers of Commerce have established an association for themselves, which has gained considerable importance as Federation of Indian Chambers of Commerce. These Associations hold their sessions annually.

In view of the very important services these Chambers of Commerce render by voicing the feelings which lead to greater trade and industries, these enjoy special privileges at the hands of the Government. They have the privilege of electing representatives each to the Federal Assembly and to the Legislative Councils of their Local Governments. Besides a number of seats are allotted to labour associations in the Legislative Councils of the major Provinces. The Chambers are also represented in quasi Government institutions.

The Bengal and Bombay Chambers of Commerce have the privilege of electing a representative each to the Council of State and 6 and 2 representatives respectively to the Legislative Councils of the respective Presidencies. The Madras Indian Chamber and the Indian Merchants Chamber elect a representative, each, to the Legislative Assembly while the Millowners' Associations at Bombay and Ahmedabad and the Bengal Chamber of Commerce, the Marwari Association (Bengal) and the Bengal Mahajan Sabha enjoy the privilege in rotation of electing a representative in the Assembly.

## CHAMBERS OF COMMERCE.

Andhra Chamber of Commerce, Ltd, Y M C. A. Buildings, No 9, Armenian Street, G T, Madras Office-bearers for 1941-42—Presi-

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**Indian Merchants' Chamber**, Lalji Naranji Memorial, Indian Merchants' Chamber Building, Back Bay Reclamation, Churchgate Street, Fort, Bombay—The Indian Merchants' Chamber, organised in Bombay in 1907, is meant to promote the objects of the Indian business community in matters of inland and foreign trade, shipping and transport, industry and manufacture, banking and insurance

The Chamber has a membership of over 750. About 40 Commercial and Trade Associations representing various trades such as rice, grain and seeds, iron, match, bullion, indigenous banking, insurance, cotton, etc., in the city and province of Bombay are affiliated to the Chamber

The Measurement Department of the Chamber undertakes to measure cargo meant for export as also cotton bales in jatha as required by the terms of contract made under the Rules of the East India Cotton Association, Ltd. With a view to encourage the spread of commercial education among Indians, who select business as their career, the Chamber has instituted a Commercial Examination Board to conduct under their auspices commercial examinations. About 50 Institutions are recognised by the Board to coach up students for these examinations. The Examinations are held once in a year, generally in the beginning of May.

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**Indian Chamber of Commerce**, (Desi Beopar Mandal), 7A, Nisbet Road, Lahore—Established 1912. The object of the Association is to safeguard the interests of Indian Commerce, trade and agriculture. The Chamber is recognised by the Punjab Government and the Government of India. The Chamber is affiliated to the Federation of Indian Chamber of Commerce and Industries and is a member of International Chamber of Commerce, Paris. The Chamber issues certificates of origin of goods manufactured in British India and has a board of arbitration to settle commercial disputes. President—Sirdar P. S. Sodhbans F.L.A.A., R.A., Vice Presidents—Mr. H. D. Mehta and Mr. R. K. Jain; Honorary Secretary—H. S. Balhaya F.I.S.A. (India), D.Com (I.M.C.), Assistant Secretary—Bawa Dev Indra Singh B.A., LL.B., F.I.S.A. (India).

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**Mahratta Chamber of Commerce and Industries, New Kitab**  
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**Marwari Chamber of Commerce (Established 1900) 143, Cotton**  
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# 164 INDUSTRY YEAR BOOK & DIRECTORY, 1943

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## 166 INDUSTRY YEAR BOOK & DIRECTORY, 1943

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Bengal Galvanised Sheet Merchants' Association, 102, Clive Street, Calcutta Secy. A K Mitra

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Bengal Hosiery Manufacturers Association, 2, Ashu Babu Lane, Kidderpore, Calcutta

Bengal Industries Association, 15, Clive Street, Calcutta

Bengal Mahajan Sabha, 26-4, Raja Brojendra Narayan Street, Cal

Bengal Salt Brokers Association, Custom House, Calcutta

Bengal Spice Dealers' Association, 24, Maharsi Debendra Rd. Calcutta

Calcutta Booksellers' Association, 54-1, College Street, Calcutta

Calcutta Insurance Association, 2, Clive Street, Calcutta

Calcutta Freight Brokers Association, 2, Clive St, Calcutta

Calcutta Hides and Skins Shippers' Association, 2, Clive St. Calcutta.

Calcutta Iron Merchants' Association, P24-6, Strand Bank Rd, Meerbahar Ghat Road, Calcutta.

Calcutta Marine Insurance Association, 2, Clive St, Calcutta

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Gunny Traders' Association, 14, Clive Street, Calcutta

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 Maiwari Salt Association, Custom House, Calcutta  
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- Madras Industries Association, 166, Mount Rd, Madras
- Madras Trades Association, Spencers Building, Mount Road, Madras
- Piece-goods Merchants' Asscn, No 80, Godown, G T, Madras

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 Forest Department, Conservator of Forests, Northern Circle, Darjeeling.  
 Home Department, Block No 2, 1st Floor, Writers' Bldg, Calcutta  
 Income-Tax Department, Imperial Secretariat Bldgs, Govt Place, West, Calcutta  
 Labour Commissioner, Writers' Bldg, Calcutta  
 Legislative Assembly Department, Council House, Calcutta  
 Legislative Department, Council House, Calcutta  
 Meteorological Office and Observatory, 4, Dutt Avenue, Alipore  
 Municipal Corporation of Calcutta, 5, Surendranath Banerjee Road, Calcutta  
 Port Commissioners, Strand Rd., Calcutta  
 Post and Telegraphs, Bengal and Assam Circle, 1, Council House St., Calcutta  
 Public Health and Local Self-Government Department, Writers' Bldg, Calcutta  
 Public Instruction, First Block, Writers' Bldg, Calcutta  
 Registrar of Joint Stock Companies, Bengal, Sui, Birbhum  
 Registration Department, Writers' Bldg, Calcutta  
 Revenue Department, Writers' Bldg, Calcutta  
 Surgeon General with the Government of Bengal, Writers' Bldg, Calcutta

## GOVERNMENT OF BOMBAY.

Accountant General, Napier Rd Bombay  
 Agriculture Department, Poona  
 Archaeological Survey, Western Circle, Hd-qs Poona  
 Bombay Board of Film Censors, Old Custom House, Fort, Bombay  
 Bombay City Survey and Land Records Old Town, Customs House, Fort, Bombay

Methods of Imports and Exports are discussed in full in **TRADER'S MANUAL** Re 1/4 Industry Book Dept, Shambazar, Calcutta

Chemist General of Civil Hospitals, Lahore.  
 Joint Public Service Commission, Lahore.  
 Land and Records, Director of, Lahore.  
 Medical and Local Government Department, Punjab Secretariat, Lahore.  
 Posts and Telegraphs, Lahore.  
 Public Instruction, Director of, Lahore.  
 Public Works Dept., Lahore.  
 Reclamation Department, Lahore.  
 Railway Department, Lahore.  
 Registration Department, Lahore.

**GOVERNMENT OF BIHAR.**

Accountant General, Ranchi.  
 Agricultural Department, Patna.  
 Archaeological Survey, Patna.  
 Board of Revenue, Patna.  
 Boiler Inspection Department, Dhanbad.  
 Civil Veterinary Department, Patna.  
 Co-operative Department, Patna.  
 Department of Industries, Patna.  
 Education and Development Department, Bihar Secretariat, Patna.  
 Electrical Engineer and Electrical Inspector, Patna.  
 Excise Department, Patna.  
 Factory Inspection Department, Ranchi.  
 Finance Department, Bihar Secretariat, Patna.  
 Forests Department, Ranchi.  
 Government Printing, Gulzarbagh, Patna.  
 Income-tax Department, Ranchi.  
 Inspector General of Civil Hospitals, Patna.  
 Irrigation Department, Bihar Secretariat, Patna.  
 Judicial Department, Bihar Secretariat, Patna.  
 Legislative Department, Bihar Secretariat, Patna.  
 Local Self-Government Department, Bihar Secretariat, Patna.  
 Political and Appointment Department, Bihar Secretariat, Patna.  
 Posts and Telegraphs, Ranchi.  
 Public Health Department, Patna.

Public Instruction, Director of, Patna.  
 Public Service Commission, Ranchi.  
 Public Works Department, Bihar Secretariat, Patna.  
 Registrar of Co-operative Societies, Bihar, Patna.  
 Registration Department, Patna.  
 Revenue and Commerce Department, Bihar Secretariat, Patna.  
 Settlement Officer, Choto Nagpur Division, Ranchi.

**GOVERNMENT OF CENTRAL PROVINCES.**

Accountant General, Nagpur.  
 Agriculture Department, Nagpur.  
 Chief Inspector of Boilers, Nagpur.  
 Chief Inspector of Factories and Boilers, Nagpur.  
 Chief Secretary, Secretariat, Nagpur.  
 Co-operative Societies, Registrar of, Nagpur.  
 Electrical Adviser and Electrical Inspector to Government, Nagpur.  
 Excise Department, Nagpur.  
 Finance Department, Secretariat, Nagpur.  
 Financial Commissioner, Nagpur.  
 Forest Department, Nagpur.  
 Government Printing Press, Nagpur.  
 Industries Department, Nagpur.  
 Inspector General of Civil Hospitals, Nagpur.  
 Joint Public Service Commission, Ranchi.  
 Local Self-Government Department, Secretariat, Nagpur.  
 Posts and Telegraphs, Nagpur.  
 Public Health Dept., Nagpur.  
 Public Instruction, Director of, Nagpur.  
 Public Works Dept., Nagpur.  
 Revenue Department, Nagpur.  
 Settlement and Land Records, Nagpur.

**GOVERNMENT OF ASSAM.**

Agriculture Department, Shillong.  
 Assam Revenue Tribunal, Shillong.  
 Chief Inspector of Boilers, Shillong.

# 196 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Civil Veterinary Department.  
Gauhati.

Co-operative Societies, Shillong.  
Director of Industries, Shillong

Director of Land Records, Shil-  
long

Director of Public Health, Shil-  
long

Director of Public Instruction,  
Shillong.

Education and Local Self-Govern-  
ment Department, Assam

Secretariat, Shillong.  
Excise Department, Shillong

Finance and Revenue Dept.,  
Assam Secretariat, Shillong

Forest Department, Shillong  
Government Press, Gauhati

Income Tax Department, Shillong  
Inspector General of Civil Hospi-  
tals and Prisons, Shillong

Inspector of Factories, Shillong  
Marine Department, Gauhati

Provincial Survey Department,  
Shillong

Public Service Commission, Shil-  
long

Public Works Department, Assam  
Secretariat, Shillong

## GOVERNMENT OF N. W. F. PROVINCE.

Account and Audit Department,  
Peshawar

Agriculture Dept, Peshawar  
Civil Medical Dept, Peshawar

Forest Department, Conservator  
of Forests, Peshawar

Frontier Constabulary Depart-  
ment, Peshawar

Government Printing and Stam-  
pationery Department, Peshawar.

Joint Public Service Commission,  
Lahore

Public Health, Director of, Pesh-  
war

Public Instruction, Director of,  
Peshawar

Revenue Commissioner, Pesh-  
war

Secretariat, Depts, Appointment,  
Education, Financial, General,  
Judicial and Political, Pesh-  
war

Veterinary Department, Civil,  
Peshawar

## GOVERNMENT OF SIND.

Asst Commissioner of Income  
Tax, Sind, Karachi

Chief Secretary to Government,  
Sind, Karachi

Chief Agricultural Officer in Sind,  
Karachi

Collector of Customs, Sind, Ka-  
rachi

Commissioner of Labour and  
Director of Information, Sind,  
Karachi

Conservator of Forests, Sind,  
Karachi

Co operative Societies, Registrar  
of, Hyderabad, Sind

Director of Health, Prison Ser-  
vices, Sind, Karachi.

Director of Industries, Sind,  
Karachi

Director of Veterinary Services,  
Sind, Karachi

Electrical Adviser to Government,  
Karachi

Inspector General of Registration,  
Sind, Karachi

Karachi Port Trust, Karachi

Public Works Dept, Karachi.

Registrar of Companies, Karachi

Superintendent of Salt and  
Excise, Sind, Karachi

Survey and Land Records, Supe-  
rintendent of, Karachi

## GOVERNMENT OF ORISSA.

Account and Audit Department,  
Ranchi

Agricultural Dept, Cuttack  
Chief Secretary to Government,  
Cuttack

Conservator of Forests, Orissa,  
Cuttack.

Co-operative Department, Cuttack  
Development Department, (Agri-  
culture, Veterinary and Indus-  
tries), Puri

Excise and Salt Department,  
Commissioner of, Puri

Health and Prison Services,  
Director of Orissa, Cuttack

Income Tax Department, Ranchi.  
Industries Department, Cuttack.

Land Revenue Dept, Cuttack  
Public Instruction, Department  
of, Cuttack.

Public Service Commission, Ran-  
chi

Public Works Dept, Cuttack  
Registration, Inspector General  
of, Cuttack

Settlement Officer, Chatrapur.

"Sketches of Indian Industries" discusses industrial situations and indus-  
- - - Vol. I & II. Re. 1/4 each. Industry Book Dept., Calcutta.

# BUSINESS ABBREVIATIONS

A		C	
@	At	c.	Cent.
A/A.	Articles of Association	C.A.	Chartered Accountant
A. a. r.	Against all risks		Credit Account
Ac., acct.	Account	C a/c. C/A.	Current Account
Acc	Acceptance	C/A.	Capital Account
A/C.	Account Current	C/B.	Cash Book
A/d.	After date	cc.	Cubic centimetre
A/D.	Acknowledgement due	C.C.	Carrying capacity of wagons.
Ads. Advt.	Advertisement	C.C.	Cash Credit
Ad. val.	Ad valorem (according to value)	C.D.	Cum (with) dividend
		c/d.	Carried down
Agt.	Agent, Agreement	C. & D	Collected and delivered
Amt	Amount	Cf.	Cash and freight
An. or As	Anna or annas		Carried forward
A/o.	Account of	C. & F.	Cost and Freight
A/or.	And/or	CH.	Clearing House, Custom House
A P.	To be protested (bills), additional premium	C.i.f.	Cost, insurance and freight
A/R.	All risks	C.f.i.	Cost, freight and insurance
Arr.	Arrival	Cf.	(Lat.) confer, compare
a/s.	After sight	Cg.	Centigramme
A/S.	Account sales	Chq., ck	Cheque
Assigt	Assignment	cm.	Centimetre
Av.	Average	C.O.	Cash Order
A/I.	First class vessels	C.O.D.	Cash on Delivery
Avoir.	Avoirdupois	Com.	Commission
B		Con.	Contra (against)
B.	Bale	Cont.	Contract
Bal.	Balance	C.P.	Charter Party
B. B.	Branch Bill, Bill Book	Cp	Compare
B/C.	Bills for Collection	C.N.	Credit Note
b/d.	Brought down	C.R.	Company's risk
Bd	Bond	Cr.	Credit, Creditor
B/D.	Bill Discounted	C/s.	Cases
B.D.	Bank Draft	Csk.	Casks
B/E.	Bill of Exchange	Ctge.	Cartage
B.L.	Bill lodged	Cum div.	} With dividend
B/L.	Bill of Lading	Cum D.	
Bls	Bales	Cur., Curt.	Current
Bs/L.	Bills of Lading	C. D. O.	Cash with Order
B.N.	Bank Note	cwt.	Hundredweight
B.O.	Branch Office, Buyer's Option	D	
B/P.	Bill Payable	d.	a penny
B.P.B.	Bank Post Bill	D	Deeds
B.P.O.	British Postal Order		
B/R.	Bills Receivable		
B/S.	Bills of Sale		
bt.	bought		

"Sketches of Indian Industries" discusses industrial situations and industrial ideals. Vol. I & II. Re. 1/4 each. Industry Book Dept., Calcutta.

# 198 INDUSTRY YEAR BOOK & DIRECTORY, 1943

D/A.	Deposit Account	F.G.A.	Fair general average
D/A.	Days after Acceptance	Fl. Fa.	Fieri facias (a writ of execution).
D/A.	Deed of Arrangement	Fo, Fol.	Folio
D/A.	Documents against acceptance	F.O.B.	Free on board
D/B.	Day Book, Deposit Pass Book	f.o.c.	Free of charge
D/d.	Days after date	F. O. R.	Free on rail
Deb.	Debit Note	f.o.s.	Free on steamer
Def.	Deferred	f.o.t.	Free on truck
deld.	Delivered	F. P.	Fire policy
Dept.	Department	F. P.	Fully paid
D/F.	Dead freight	F. P. A.	Free of particular average
Dft.	Draft	ft.	Foot or feet
Dis, Disc.	Discount	Fr.	Freight
Div.	Dividend	fwd.	Forward
D/N.	Debit Note	<b>G</b>	
D/O.	Delivery Order	G.	Gold; guarantee
Do.	Ditto (the same)	G.A.	General Average (insurance)
Dols.	Dollars	Gall.	Gallon
Doz.	Dozen	Gaz.	Gazette
D/P.	Document against Payment.	G. b o	Goods in bad order
D/R.	Deposit Receipt	Gent.	Gentlemen
D/S.	Days after Sight	G. gr.	Great gross (144 dozs)
Dr.	Debtor drachm	G m b.	Good merchantable brand
D/W.	Dock Warrant, Dead weight	G. m q	Good merchantable quality
d W.	Dead weight	G o b.	Good ordinary brand
Dy.	Delivery	Goods	Goods Train
<b>E</b>		Govt.	Government
E.	East	G. P. O.	General Post Office
E.E.	Errors excepted	Gr.	Gross, grain
e.g.	For example (ex-empli gratis)	Gr wt.	Gross weight
E/L.	Endorsement irregular	Gs.	Guineas
E. & O. E.	Errors and omissions excepted	<b>H</b>	
Encl. (s)	Enclosure (s)	hhd.	hogs head
Entd.	Entered	H M C.	His Majesty's Customs
etc.	And so on	H M S.	His Majesty's Service or Ship
Ex cp., or	Ex coupon	H O.	Head office.
x/cp.	Ex dividend	H P.	Horse Power
x/d.	Exclusive of dividend	H. P. N.	Horse Power Nominal
ex. div.	Ex Interest	<b>I</b>	
Ex. Int.		I B	Invoice Book
<b>F</b>		I/L.	Indorsement irregular
F.	Franc	Ib, Ibid.	In the same place (Latin ibidem)
F.A.A.	Free of all averages	I D, H	Indicated Horse Power
F a q	Fair average quality	Id	The s a m e (Latin idem)
F.A.S.	Free alongside ship		
F D	Free docks		
Fg	Fully good		

Start a New Industry ! Read MANUFACTURE OF RUBBER GOODS.  
Price. Re. 1/12. INDUSTRY BOOK DEPT., Shambazar, Calcutta.

in.	Inch or inches	nom.	Nominal
Inst.	Instant, of the present month	N. P.	Notary Public
Insce.	Insurance	N. P. F.	Not Provided for
Int.	Interest	N. S.	New Style
Inv.	Invoice, inventory	N/S	Not Sufficient
I. O. U.	I owe you	N. S. F.	Not Sufficient Funds
Irr.	Irredeemable		
<b>J</b>			
J/A.	Joint account	O. A.	Old Account
J/r., Junr.	Junior	O. C.	All Correct
<b>L</b>			
£	Pound (sterling)	O/D	Overdraft
L/A.	Letter of Authority	O/d.	On demand
lb.	Pound (weight)	O H M.S.	On His Majesty's Service
L. B.	Letter Book	O K.	All correct
L/C.	Letter of Credit	O. N.	Own Notes
£ E.	Pounds Egyptian	O. P.	Open Policy
L. O.	London Office	O. R.	Owner's Risk, Official Receiver
L/P.	Life Policy	Ord.	Ordinary
L S.	Place for the Seal	O/S.	On sale
£ s. d.	Pounds, shillings, pence	O/sg.	Outstanding
£ T.	Pounds Turkish	oz.	Ounce
Led.	Ledger	<b>P</b>	
Ltd, Ld.	Limited	P/A.	Power of Attorney
<b>M</b>			
M/A.	Memorandum of Association	P.A., p.a.	Yearly (Latin per annum)
max.	Maximum	Payt.	Payment
M/D.	Months after date	P. B.	Pass Book
Mdse.	Merchandise	P/C.	Price Current
Memo.	Memorandum	P. C.	By the Hundred (per centum)
Mfg.	Manufacturing	p.c.	Per cent, Post card
Min.	Minute	pcs.	Pieces
m/m.	Millimetres	Pd.	Paid
M. O.	Money Order	Per ann.	Yearly (Latin per annum)
Mo.	Month	Per ct.	By the Hundred (Latin per centum)
M R.	Mate's receipt	per pro.	Per procuration
M/S.	Months after sight	Pk.	Pack
Mss.	Manuscripts	Pkg.	Package
Nt.	Mortgage	P. & L.	Profit and Loss
<b>N</b>			
N.	North	P/m.	Per mensem
N A.	New Account	Pm.	Premium
N/A.	No Advice, No Account	P. M.	Post Master
N/A.	Non-acceptance	p m.	post meridiem—after noon
N. B.	Take Notice (Latin nota bene)	P/N.	Promissory Note
N/E.	No effects	P. O.	Postal Order, Post Office
N/F.	No Funds	P. O. B.	Post Office Box
N/N.	Not to be noted	P.O.D.	Pay on delivery
N/O.	No Order	P.O.O.	Post Office Order
No.	Number	P.P.	Per procuration, Pages, Parcel Post
		Pref	Preferred

Start a New Industry ! Read **MANUFACTURE OF RUBBER GOODS.**  
 Price Re. 1/12. INDUSTRY BOOK DEPT., Shambazar, Calcutta.



# 200 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Pro	For	St., Stet.	Let it stand (Latin Stet)
Pro-tem.	For the time being (Latin pro tempore)	Ster, Stg	Sterling
Prox.	Of the next month (Latin proximo)	Stk	Stock
P.S.	Postscript (Latin post scriptum)	Str.	Steamer
P T. O.	Please turn over	T	T
Pt.	Pint	T	Tons
	Q	T.B	Trial Balance
Qr.	Quarter, quire	T.C.	Till Countermanded (used in advertising)
Qt	Quart	T.E.	Trade expenses
q. v.	Which see (Latin quod vide)	Tfr.	Transfer
Qv.	Query	T. M O	Telegraphic Money Order
	R	T.O.	Telegraph Office, Turn over
R.	Rupee	T.T	Telegraphic Transfer
R./A.	Refer to acceptor	Trsr.	Treasurer
R/D.	Refer to Drawer		U
R. A. P.	Rupees, annas & pies	U/a	Underwriting account
Re.	With reference to, in regard to	U V.	Uncollected vouchers
Recd.	Received	U/W.	Underwriter
Recpt.	Receipt	Ult.	Of the last month (Latin ultimo)
Ref.	Reference		V
Regd.	Registered	V.	Against (Latin versus)
Retd.	Returned	Via.	By the way of
Repd.	Replied	Viz.	Namely (Latin videll- cet)
Rev. A/c.	Revenue Account	Vol	Volume
Rm	Ream	V.P.P. *	Value Payable Post
R M S.	Royal Mail Steamer	Vs.	Versus
R P.	Reply paid		W
R R.	Railway Receipt, Railway's Risk	W.	West
Rs	Rupees	W B	Way Bill, Warehouse Book
R S. V. P	Reply if you please	W b.	Water ballast (ship- ping)
Ry.	Railway	Wk.	Week
	S	Wt.	Weight
S.	Silver South	W W.	Warehouse warrant
\$	Dollars		X
S B.	Short Bill, Sales Book	xc.	Ex coupon
S/D.	Sea damaged	x d	Ex dividend
S C	Sharp cash	x in.	Ex interest
S C.	Safe custody		Y
Secy.	Secretary	Yd.	Yard
Shipt.	Shipment	Yr.	Year
Shr.	Share	Yrs	Yours
s l.	Small lot	.	Degree
Sgd.	Signed	%	By the Hundred (per centum)
S/N.	Shipment Note	% o	By the Thousand (per mille)
S/O	Sub-Office		
S O	Seller's option		
S P.	Supra protest		
Sq.	Square		
SS, Sc.	Steamship		
SV	Surrender value		

There is lot of money in Confectionery making. Read MANUFACTURE OF CONFECTIONERY. Re. 1/12. Industry Book Dept., Calcutta.

# INDIAN INCOME TAX RATES

Indian Income Tax Act applies to all incomes, profits or gains from the following heads of incomes, provided the income accrues or arises or is received in British India, or is deemed to accrue or arise or to be received in British India —

(I) Salaries; (II) Interest on Securities, (III) Property; (IV) Business; (V) Professional earnings, (IV) Other sources

The aggregate amount of an assessee's income-tax chargeable under each of the heads (I) to (VI) shall be the taxable income of the assessee and tax thereon shall be levied at the rate specified below:—

## Part I.

### RATES OF INCOME-TAX.

A—In the case of every individual, Hindu undivided family, unregistered firm and other association of persons not being a case to which paragraph B of this Part applies —

(a) Where the total income does not exceed Rs 2,000—

	Rate
1 On the first Rs 750 of total income --	Nil.
2. On the next Rs 1,250 of total income --	Six pies in the rupee.
Provided that no tax shall be payable on	
(a) total income which does not exceed	
Rs. 1,500	

(b) Where the total income exceeds Rs 2,000—

	Rate.	Surcharge.
1. On the first Rs 1,500 of total income,	Nil	Nil.
2 On the next Rs. 3,500 of total income,	Nine pies in the rupee.	Six pies in the rupee.
3. On the next Rs. 5,000 of total income	One anna and three pies in the rupee.	Nine pies in the rupee
4 On the next Rs. 5,000 of total income.	Two annas in the rupee.	One anna and two pies in the rupee.
5 On the balance of total income,	Two annas and six pies in the rupee.	One anna and three pies in the rupee.

B—In the case of every company and local authority, and in every case in which under the provisions of the Indian Income-tax Act, 1922, income-tax is to be charged at the maximum rate—

	Rate.	Surcharge.
On the whole of total income,	Two annas and six pies in the rupee	One anna and three pies in the rupee

## PART II.

### Rates of Super-tax.

A—In the case of every individual Hindu undivided family, unregistered firm and other association of persons, not being a case to which paragraphs B and C of this Part apply—

There is lot of money in Confectionery making. Read **MANUFACTURE OF CONFECTIONERY.** Re. 1/12. Industry Book Dept., Calcutta.

	Rate.	Surcharge.
1. On the first Rs 25,000 of total income	Nil.	Nil.
2. On the next Rs 10,000 of total income	One anna in the rupee.	Six pies in the rupee.
3. On the next Rs 20,000 of total income	Two annas in the rupee.	One anna in the rupee.
4. On the next Rs 70,000 of total income.	Three annas in the rupee	One anna and six pies in the rupee
5. On the next Rs 75,000 of total income	Four annas in the rupee.	Two annas in the rupee
6. On the next Rs 1,50,000 of total income.	Five annas in the rupee.	Two annas and six pies in the rupee.
7. On the next Rs 1,50,000 of total income	Six annas in the rupee	Three annas in the rupee.
8. On the balance of total income.	Seven annas in the rupee.	Three annas and six pies in the rupee

B—In the case of every local authority—

	Rate	Surcharge
On the whole of total income.	One anna in the rupee.	Six pies in the rupee.

C—In the case of an association of persons being a co-operative society, other than the Sanikatta Saltowners' Society in the Bombay Presidency, for the time being registered under the Co-operative Societies Act, 1912, or under an Act of the Provincial Legislature governing the registration of Co-operative Societies—

	Rate.	Surcharge
1. On the first Rs. 25,000 of total income.	Nil	Nil
2. On the balance of total income.	One anna in the rupee	Six pies in the rupee.

D—In the case of every company—

	Rate
On the whole of total income,	One anna and six pies in the rupee.

## EXCESS PROFITS TAX.

The excess profits tax imposed by section 4 of the Excess Profits Tax Act, 1940 (XV of 1940), shall, in respect of any chargeable accounting period beginning after the 31st day of March, 1942, be an amount equal to sixty-six and two-thirds per cent of the amount by which the profits of the business during that chargeable accounting period exceed the standard profits

Under a notification dated the 5th September 1942 of the Government of India in the Finance Department (Central Revenues) Excess Profits Double Taxation (India and Ceylon) Rules have been framed. The object of the Rules is to grant relief in cases where, in respect of any profit of any business excess profit tax has been paid under the Excess Profits Tax Act, 1940 (XV of 1940), and excess profits duty has been paid in Ceylon.

**If you want to market Crops, learn preliminary process from PREPARING CROPS FOR THE MARKETS., Re. 1/12. Industry Book Dept., Cal.**

PRESENT SCALE OF INCOME TAX.

The assessment of income tax on the basis of aforesaid rates for income tax and surcharge for incomes varying from Rs 1,501 to Rs 1 lakh is as follows:—

Income per annum in Rs.	Income Tax		Surcharge		Total Income Tax	
	Rs	As. P.	Rs	As. P.	Rs	As. P.
1,501	23	7 6	Nil		23	7 6
1,600	26	9 0	Nil		26	9 0
1,700	29	11 0	Nil		29	11 0
2,000	39	1 0	Nil		39	1 0
2,001	39	1 9	0	0 6	39	2 3
2,500	46	14 0	31	4 0	78	2 0
3,000	70	5 0	46	14 0	117	3 0
3,500	93	12 0	62	8 0	156	4 0
4,000	117	3 0	78	2 0	195	5 0
4,500	140	10 0	93	12 0	234	6 0
4,800	154	11 0	103	2 0	259	13 0
5,000	164	1 0	109	6 0	273	7 0
5,500	203	2 0	132	13 0	335	15 0
6,000	242	3 0	156	4 0	398	7 0
6,500	281	0 0	179	11 0	460	15 0
6,700	296	14 0	189	1 0	485	15 0
7,000	320	5 0	203	2 0	523	7 0
7,200	335	15 0	212	8 0	548	7 0
7,500	359	6 0	226	9 0	585	15 0
8,000	398	7 0	250	0 0	648	7 0
8,400	429	11 0	268	12 0	698	7 0
9,000	476	9 0	296	14 0	773	7 0
9,500	515	10 0	320	5 0	835	15 0
9,800	539	1 0	334	6 0	873	7 0
10,000	554	11 0	243	12 0	898	7 0
11,000	679	11 0	416	10 8	1,096	5 8
12,000	804	11 0	489	9 4	1,294	4 4
13,000	929	11 0	562	8 0	1,492	3 0
14,000	1,054	11 0	638	6 8	1,690	1 8
15,000	1,179	11 0	708	5 4	1,888	0 4
16,000	1,335	15 0	786	7 4	2,122	6 4
17,000	1,492	3 0	864	9 4	2,356	12 4
18,000	1,648	7 0	942	11 4	2,591	2 4
19,000	1,804	11 0	1,020	13 4	2,825	8 4
20,000	1,960	15 0	1,098	15 4	3,059	14 4
21,000	2,117	3 0	1,177	1 4	3,294	4 4
22,000	2,273	7 0	1,255	3 4	3,528	10 4
23,000	2,429	11 0	1,333	5 4	3,763	0 4
24,000	2,585	15 0	1,411	7 4	3,997	6 4
25,000	2,742	3 0	1,489	9 4	4,231	12 4
30,000	3,523	7 0	1,880	3 4	5,403	10 4
35,000	4,304	11 0	2,270	13 4	6,575	8 4
40,000	5,085	15 0	2,661	7 4	7,747	6 8
45,000	5,867	3 0	3,052	1 4	8,919	4 4
50,000	6,648	7 0	3,442	11 4	10,091	2 4
60,000	8,210	15 0	4,223	15 4	12,434	14 4
70,000	9,773	7 0	5,005	3 4	14,778	10 4
80,000	11,335	15 0	5,786	7 4	17,122	6 4
90,000	12,898	7 0	6,567	11 4	19,466	2 4
1,00,000	14,460	15 0	7,348	15 4	21,809	14 4

If you want to market Crops, learn preliminary process from PREPARING CROPS FOR THE MARKETS. Re. 1/12. Industry Book Dept., Cal.

# INDIAN STAMP DUTIES

**ACKNOWLEDGEMENT** of a debt exceeding twenty rupees in amount or value, written or signed by, or on behalf of, a debtor in order to supply evidence of such debt in any book (other than a banker's pass-book) or on a separate piece of paper when such book or paper is left in the creditor's possession, provided that such acknowledgement does not contain any promise to pay the debt or any stipulation to pay interest or to deliver any goods or other property ... Anna 1

**ADMINISTRATION-BOND**, including a bond given under section 256 of the Indian Succession Act, 1865, section 6 of the Government Savings Bank Act, 1873, section 78 of the Probate and Administration Act, 1881, or section 9 or section 10 of the Succession Certificate Act, 1889—

- (a) where the amount does not exceed Rs 1,000, the same duty as a Bond for such amount
- (b) in any other case .. .. . Rs 5 0

## AGREEMENT OR MEMORANDUM OF AN AGREEMENT—

- (a) if relating to the sale of a bill of exchange ... As 2
- (b) if relating to the sale of a Government security, or share in an incorporated company or other body corporate

Subject to a maximum of ten rupees, one anna for every Rs 10,000 or part thereof of the value of the security or share

- (c) if not otherwise provided for .. .. . As 8

## ARTICLES OF ASSOCIATION OF A COMPANY

- (i) Assam, C P, Madras, U P .. .. . Rs 50 0

### (ii) Bengal—

- (a) Where the nominal share capital does not exceed one lakh of rupees .. .. . Rs 50 0
- (b) where the nominal share capital exceeds one lakh of rupees .. .. . Rs 100 0

### (iii) Bombay—

- (a) where the company has no share capital or nominal share capital does not exceed Rs 2,500/- .. Rs 25 0
- (b) where the nominal share capital exceeds Rs 2,500/- but does not exceed Rs 1,00,000/- .. Rs 50 0
- (c) where the nominal share capital exceeds one lakh of rupees .. .. . Rs 100 0

### (iv) Punjab—

- (a) where the nominal share capital does not exceed one lakh .. .. . Rs 25 0
- (b) In other cases— .. .. . Rs 50 0
- (c) In other provinces (India)— .. .. . Rs 25 0

**Exception**—Articles of Association not formed for profit and registered under Sec 26 of the Indian Companies Act, 1913

**APPRAISEMENT** or valuation made otherwise than under an order of the Court in the course of a suit—

- (a) where the amount does not exceed Rs 1,000, the same duty as a Bond for such amount
- (b) in any other case .. .. . Rs. 5 0

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You like to prepare chocolate, lozenges, drops, etc. Read **MANUFACTURE OF CONFECTIONERY**. Industry Book Dept, Shambazar, Cal

APPRENTICESHIP-DEED, including every writing relating to the service or tuition of any apprentice, clerk or servants placed with any master to learn by profession, trade or employment, not being Articles of clerkship — — — — — Rs 5 0

APPRAISEMENT or valuation made otherwise than under any company not formed for profit and registered under Section 26 of the Indian Companies Act, 1882 — — — — — Rs. 25 0

AWARD, that is to say, any decision in writing by an arbitrator or umpire, not being an award directing a partition, on a reference made otherwise than by an order of the Court in the course of a suit—

(a) where the amount or value of the property to which the award relates as set forth in such award does not exceed Rs 1,000 the same duty as a Bond for such amount

(b) in any other case — — — — — Rs. 5 0

BILL OF EXCHANGE not being a bond, bank note or currency note—(a) where payable on demand — — — — — Anna 1

(b) where payable otherwise than on demand, but not more than one year after date of sight at the following rates:

	If drawn singly.	For each part when in set of three	For each part when in set of two
	Rs As	Rs As.	Rs. As
if the amount of the bill or note does not exceed Rs 200 —	0 3	0 2	0 1
if it exceeds Rs 200 and does not exceed Rs 400 —	0 6	0 3	0 2
if it exceeds Rs. 400 and does not exceed Rs 600 —	0 9	0 5	0 3
if it exceeds Rs 600 and does not exceed Rs 800 —	0 12	0 6	0 4
if it exceeds Rs 800 and does not exceed Rs 1,000 —	0 15	0 8	0 5
if it exceeds Rs 1,000 and does not exceed Rs 1,200 —	1 2	0 9	0 6
if it exceeds Rs 1,200 and does not exceed Rs 1,600 —	1 8	0 12	0 8
if it exceeds Rs 1,600 and does not exceed Rs 2,500 —	2 4	1 2	0 12
if it exceeds Rs. 2,500 and does not exceed Rs. 5,000 —	4 8	2 4	1 8
if it exceeds Rs 5,000 and does not exceed Rs 7,500 —	6 12	3 6	2 4
if it exceeds Rs 7,500 and does not exceed Rs 10,000 —	9 0	4 8	3 0
if it exceeds Rs 10,000 and does not exceed Rs 15,000 —	13 8	6 12	4 8
if it exceeds Rs 15,000 and does not exceed Rs 20,000 —	18 0	9 0	6 0
if it exceeds Rs. 20,000 and does not exceed Rs. 25,000 —	22 8	11 4	7 8
if it exceeds Rs 25,000 and does not exceed Rs 30,000 —	27 0	13 8	9 0
and for every additional Rs 10,000 or part thereof in excess of Rs 30,000 —	9 0	4 8	3 0

You like to prepare chocolate, lozenges, drops, etc. Read MANUFACTURE OF CONFECTIONERY, Industry Book Dept., Shambazar, Cal.

## 206. INDUSTRY YEAR-BOOK & DIRECTORY, 1943

**BILL OF LADING** (including a through bill of lading)— As 4  
NB—If a bill of lading is drawn in parts, the proper stamp thereon must be borne by each one of the set.

**BOND** not being a debenture and not being otherwise provided for by this Act, or by the Court-fees Act, 1870—

where the amount of value secured does not exceed Rs	10	As 2
when it exceeds Rs. 10 but does not exceed	Rs 50	As 4
" " Rs 50	" "	Rs 100
" " Rs 100	" "	Rs 200
" " Rs 200	" "	Rs 300
" " Rs 300	" "	Rs 400
" " Rs 400	" "	Rs 500
" " Rs 500	" "	Rs 600
" " Rs 600	" "	Rs 700
" " Rs 700	" "	Rs 800
" " Rs 800	" "	Rs 900
" " Rs 900	" "	Rs 1,000

and for every Rs 500 or part thereof in excess of Rs. 1,000—Rs 2-8

**CHARTER-PARTY**, that is to say, any instrument (except an agreement for the hire of a tug steamer) whereby a vessel or some specified principal part thereof is let for the specified purposes of the Charter, whether it includes a penalty clause or not -- Re 1

### CHEQUE

Free

**DELIVERY ORDER IN RESPECT OF GOODS**, that is to say, any instrument entitling any person therein named, or his assigns or the holder thereof, to the delivery of any goods lying in any dock or part, or in any warehouse in which goods are stored or deposited on rent or hire, or upon any wharf, such instrument being signed by or on behalf of the owner of such goods, upon the sale or transfer of the property therein, when such goods exceed in value twenty rupees -- Anna 1

**LETTER OF ALLOTMENT OF SHARES** in any company or proposed company, or in respect of any loan to be raised by any company or proposed company -- As 2

**LETTER OF CREDIT**, that is to say, any instrument by which one person authorises another to give credit to the person in whose favour it is drawn -- As 2

### MEMORANDUM OF ASSOCIATION OF A COMPANY

(A) If accompanied by Articles of Association under Section 17 of the Indian Companies Act, 1913—

- (i) Assam, Bengal, Bombay, CP, Punjab, U.P. -- Rs 30
- (ii) Other provinces (India) -- Rs 15

(B) If not accompanied—

The combined stamp duty payable under "Articles of Association" and under "Memorandum of Association" if accompanied by Articles of Association.

Exemption—

Memorandum of Association not formed for Profit and Registered under Section 26 of the Indian Companies Act, 1913

**NOTARIAL ACT** that is to say, any instrument, endorsement note, attestation, certificate or entry not being a Protest made or signed by a Notary Public in the execution of the duties of his office, or by any other person lawfully acting as a Notary Public -- Re 1

**NOTE OR MEMORANDUM** sent by a Broker or Agent to his principal, intimating the purchase or sale on account of such principal—

- (a) of any goods exceeding in value twenty rupees -- As 2
- (b) of any stock or marketable security, exceeding in value twenty rupees

**Want to Prosper in Business? Read HOW TO DO BUSINESS. Re 1/4.**  
**INDUSTRY BOOK DEPT., Shambazar, Calcutta.**

Subject to a maximum of ten rupees, one anna for every Rs 10,000 or part thereof of the value of the stock or security.

**PARTNERSHIP —**

**Instrument of Partnership—**

(A) where the capital of the partnership does not exceed	Rs	500
(i) Assam, Bengal, Bombay, Madras	Rs	5
(ii) U. P.	Rs.	3-12
(iii) Other provinces (India)	Rs.	2-8
(B) In other cases—		
(i) Assam, Bengal, Bombay, Madras	Rs	20
(ii) U. P.	Rs.	15
(Rs 7-8 if the capital does not exceed Rs. 2,000)		
(iii) In other provinces	Rs.	10

**Instrument of Partnership—**

**(B) Dissolution of Partnership**

(i) Assam, Bengal, Bombay, Madras, U. P.	Rs	10
(ii) Other Provinces	Rs.	5

**POLICY OF INSURANCE—**

For every sum exceeding Rs 1,000, and also for every Rs. 1,000 or part thereof insured in excess of Rs. 1,000

**(A) Life Insurance—**

(i) If drawn singly	As	6
(ii) If drawn in duplicate, for each part	As	3

**(B) Marine Insurance**

As. 1

**(C) Fire Insurance**

(i) when the sum insured does not exceed Rs. 5,000	As	8
(ii) in any other case	Re.	1

**PROMISSORY NOTE —**

**(A) when payable on demand—**

(i) when the amount or value does not exceed Rs. 250 Anna 1		
(ii) when the amount or value exceeds Rs 250 but does not exceed Rs 1,000	As	2
(iii) in any other case	As	4

**(B) when payable otherwise on demand, the duty is the same as a Bill of Exchange.**

**PROTEST OF BILL OR NOTE**, that is to say, any declaration in writing made by a Notary Public, or other person lawfully authorised, such, as dishonour of a bill of exchange, (b) In bottles containing less than 27 oz but not less than 20 oz—Three annas per bottle (c) In bottles containing less than 13½ oz but not less than 10 oz—One anna and six pies per bottle. (d) In bottles containing less than 6½ oz but not less than 5 oz—Nine pies per bottle. (e) In other containers—Re 1-8 per Imperial gallon

Champagne and other sparkling wines—Rs 15-12 per Imperial gallon Other sorts—Rs 9-0 per Imperial gallon

Brandy, gin, whisky and other sorts of spirits not otherwise specified, including wines containing more than 42 per cent of proof spirit—Rs 45 per Imperial gallon of the strength of London proof

Liqueurs, cordials, mixtures and other preparations containing spirit not otherwise specified (i) entered in such a manner as to indicate that the strength is not to be tested—Rs 60 per Imperial gallon. (ii) not so entered—Rs 45 per Imperial gallon of the strength of London proof

Drugs and medicines containing spirit—(i) entered in such a manner as to indicate that the strength is not to be tested—Rs 48 per

Organise your business with hints from "Theory & Practice of Commerce and Business Organisation" Rs. 4/8. Industry Book Dept, Calcutta.



# INDIAN CUSTOMS TARIFF

**T**HE schedule is divided into two sections, viz. Import Tariff and Export Tariff. The following compiles the main articles subject to import and export duties, the standard rate of duty, preferences accorded by India to the United Kingdom (U. K.) and the British Colonies (Br C).

## IMPORT SCHEDULE.

### PRODUCTS OF THE ANIMAL KINGDOM.

Milk, condensed or preserved, including milk cream—30 per cent ad valorem  
 Cowries and shells—30 per cent ad valorem  
 Coral unprepared—Same as cowries and shells  
 Ivory unmanufactured 36 p c ad valorem Br C. 24 per cent ad valorem

### PRODUCTS OF THE VEGETABLE KINGDOM.

Fruits and Vegetables, all sorts, fresh, dried, salted or preserved—36 per cent ad valorem Br C 24 p c ad valorem.

Currants—Re 1-8 per cwt

Coffee not otherwise specified—25 per cent ad valorem plus one anna per pound, Br C 30 per cent ad valorem

Coffee, canned or bottled—36 per cent ad valorem Br. C. 24 per cent ad valorem .

Tea—6 annas per pound, Br C 3½ annas per lb

The following spices, whether ground or unground, namely Cardamoms, cassia, cinnamon, cloves, nutmegs and pepper—54 p c, Br C 45 p c

Chillies, ginger and mace—36 per cent ad valorem, Br C 27 p c.

Betelnuts—54 per cent, Br C 45 per cent

Vanilla beans—30 p c

Grain and Pulse, not otherwise specified, including broken grains

the Indian, including flour—Free

(1) Assam, Bengal, Bombay, C. P., Punjab, U P --  
 (ii) Other provinces (India) -- Rs 10

(B) If not accompanied—

The combined stamp duty payable under "Articles of Association" and under "Memorandum of Association" if accompanied by Articles of Association.

Exemption—

Memorandum of Association not formed for Profit and Registered under Section 26 of the Indian Companies Act, 1913

NOTARIAL ACT that is to say, any instrument, endorsement note, attestation, certificate or entry not being a Protest made or signed by a Notary Public in the execution of the duties of his office, or by any other person lawfully acting as a Notary Public -- Re 1

NOTE OR MEMORANDUM sent by a Broker or Agent to his principal, intimating the purchase or sale on account of such principal—

(a) of any goods exceeding in value twenty rupees -- As 2

(b) of any stock or marketable security, exceeding in value twenty rupees

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**INDUSTRY BOOK DEPT., Shambazar, Calcutta.**

**FATTY SUBSTANCES, GREASES, WAX.**

All sorts of Stearine, wax, grease and animal fat not otherwise specified—30 p c

Lard, not canned or bottled—30 p c

Beeswax—30 p c.

Tallow—Free.

Fish oil including whale oil not otherwise specified—30 p c

Fish oil and whale oil, hardened or hydrogenated—Rs 12 per cwt.

Vegetable Non-essential oils not otherwise specified—42 p c, Br. C. 30 p c

Vegetable Non-essential oils, namely, coconut, groundnut and linseed—42 p c, Br. C 30 p c.

All sorts of Animal oils not otherwise specified—30 p c.

**FOOD, DRINK AND TOBACCO.**

Canned or bottled bacon, ham and lard—30 p c

Fish, canned—30 p c

Isinglass, canned or bottled—30 p c

Sugar excluding confectionery—The rate at which excise duty is for the time being leviable on Sugar, other than Khandsari or palmyra Sugar, produced in British India plus Rs 6-12 per cwt plus one-fifth of the total duty.

Molasses—37½ p c

Confectionery—60 p c

Sugar-candy—Rs 12-9½ per cwt

Cocoa and chocolate other than confectionery—30 p c

Biscuits, cakes, and farinaceous and patent foods, canned or bottled—30 p c

Vegetable product, jams, jellies, pickles, chutnies, sauces, and condiments, canned or bottled—30 p c

Fruit Juices—36 p c, Br C 24 p c

Fruits and Vegetables canned or bottled—36 p c; Br. C. 24 p c.

Canned or bottled provisions, not otherwise specified—30 p c.

Provisions and Oilman's Stores and Groceries, all sorts not otherwise specified—30 p c

All sorts of food not otherwise specified—30 p c.

All sorts of drink not otherwise specified—30 p c

Ale, beer, porter, cider and other fermented liquors—(1) In barrels or other containers containing 27 oz or more Re 1-2 per Imperial gallon (b) In bottles containing less than 27 oz but not less than 20 oz—Three annas per bottle (c) In bottles containing less than 13½ oz but not less than 10 oz—One anna and six pies per bottle. (d) In bottles containing less than 6½ oz but not less than 5 oz—Nine pies per bottle. (e) In other containers—Re 1-8 per Imperial gallon

Champagne and other sparkling wines—Rs 15-12 per Imperial gallon Other sorts—Rs 9-0 per Imperial gallon

Brandy, gin, whisky and other sorts of spirits not otherwise specified, including wines containing more than 42 per cent of proof spirit—Rs 45 per Imperial gallon of the strength of London proof

Liqueurs, cordials, mixtures and other preparations containing spirit not otherwise specified (i) entered in such a manner as to indicate that the strength is not to be tested—Rs 60 per Imperial gallon (ii) not so entered—Rs. 45 per Imperial gallon of the strength of London proof

Drugs and medicines containing spirit—(i) entered in such a manner as to indicate that the strength is not to be tested—Rs 48 per

Organise your business with hints from "Theory & Practice of Commerce and Business Organisation." Rs. 4/8. Industry Book Dept., Calcutta.

Imperial gallon, U. K. Rs 43-3½ per Imperial gallon, Br. C Rs 43-3½ per Imperial gallon (11) not so entered—Rs 34-12 per Imperial gallon of the strength of London proof; U. K. Rs 33-3½ per Imperial gallon of the strength of London proof, Br. C Rs 33-3½ per Imperial gallon of the strength of London proof

Perfumed spirits—Rs 60 per Imperial gallon or 25 per cent ad valorem whichever is higher plus one-fifth of the total duty.

Rum—Rs 45 per Imperial gallon of the strength of London proof, Br. C Rs 40-8 per Imperial gallon of the strength of London proof

Denatured spirit—11½ p c

Vinegar in casks—3 p c

Oilcakes—30 p c

Tobacco, manufactured, not otherwise specified—Rs 4-8 per lb

Cigars—135 p c

Cigarettes—25 p c ad valorem and in addition either Rs 8-2 per thousand or Rs 3-4 per lb, whichever is higher plus one-fifth of the total duty

Tobacco, unmanufactured—Rs 3-14½ per lb, Br. C 3-14 per lb

### MINERAL PRODUCTS

China clay—Free

Salt, excluding salt exempted under item No 25 (2)—The rate at which excise duty is for the time being leviable on salt manufactured in the place where the import takes place

Chalk, lime and clay—30 p c

Cement not otherwise specified—36 p c, U. K. 24 p c

Portland cement excluding white Portland cement—Rs 16-8 per ton

Marble and stone not otherwise specified—30 p c

Metallic ores, all sorts except ochres and other pigment ores—Free

Coal, coke and patent fuel—Twelve annas per ton

Asphalt—30 p c, Br. C 18 p c

Pitch and Tar—30 p c,

Kerosene, also any mineral oil other than kerosene and motor spirit which has its flashing point below one hundred degrees of Fahrenheit's thermometer by Abel's close test—Four annas and six pies per Imperial gallon

Motor Spirit—The rate at which excise duty is for the time being leviable on motor spirit

Mineral oil—(a) which has its flashing point at or above two hundred degrees of Fahrenheit's thermometer, and is ordinarily used for the batching of jute or other fibre—Rs 18-12 per ton (b) which has its flashing point at or above one hundred and fifty degrees of Fahrenheit's thermometer, is not suitable for use as an illuminant in wick lamps, and is such as is not ordinarily used except as fuel or for some sanitary or hygienic purposes—15 per cent ad valorem

Lubricating oil, that is, oil such as is not ordinarily used for any other purpose than lubrication, excluding any mineral oil which has its flashing point below two hundred degrees of the Fahrenheit thermometer by Abel's close test—Two annas and six pies per Imperial gallon

### CHEMICALS, SOAPS, CANDLES, Etc.

Chemicals, Drugs and Medicines, all sorts not otherwise specified—36 p c, U. K. 24 p c, Br. C 24 p c

Bleaching paste and bleaching powder—Free

Copperas, green (ferrous sulphate) 3 p c

POPULAR HANDBOOKS As 5 each. Write to:—  
INDUSTRY BOOK DEPT., 22, R. G. Kar Road, Shambazar, Calcutta.

Soda ash, including calcined natural soda and manufactured sesquicarbonates—30 p c ; Br C 18 p c.

Magnesium chloride—Twelve annas per cwt or 25 p c ad valorem whichever is higher plus one-fifth of the total duty.

Alum (ammonia alum, potash alum and soda alum)—25 p c : ad valorem or Re 1-6 per cwt, whichever is higher plus one-fifth of the total duty

Magnesium sulphate or hydrated magnesium sulphate—25 p c ad valorem or Re 1-4 per cwt, whichever is higher plus one-fifth of the total duty

Cadmium sulphide, cobalt oxide, liquid gold for glass making, selenium, and uranium oxide—30 p c

The following Chemicals, Drugs and Medicines, namely, acetic, carbolic, citric, hydrochloric, nitric, oxalic, sulphuric, tartaric and other acids, anhydrous ammonia, naphthalene, potassium bichromate, potassium chlorate, potassium cyanide and other potassium compounds, bicarbonate of soda, borax, sodium bichromate, sodium cyanide, sodium silicate, arsenic, calcium carbide, glycerine, lead, magnesium and zinc compounds not otherwise specified, aloes, assafoetida, cocaine, sarsaparilla and storax—30 p c

Saccharine (except in tablets)—Rs 7-8 per lb

Saccharine tablets—18½ per cent ad valorem or Rs 6-4 per pound of saccharine contents, whichever is higher plus one-fifth of the total duty

Alkaloids of Opium and their derivatives—Rs 30 per seer of 80 tolas or 18½ per cent ad valorem, whichever is higher plus one-fifth of the total duty

Toilet Requisites not otherwise specified—30 p c.

Cinematograph Films, not exposed—24 p c

Cinematograph Films, exposed—45 p c

Paints, colours and painters' materials, all sorts not otherwise specified, including paints, solutions and compositions containing dangerous petroleum within the meaning of the Indian Petroleum Act, 1934—36 p c, U K 24 p c

Dyes derived from coal-tar, and coaltar derivatives, used in any dyeing process—12 p c

Red lead, genuine dry, genuine moist and reduced moist—30 p c ad valorem or Rs 4-12 per cwt, whichever is higher plus one-fifth of the total duty U K 24 per cent

White lead, genuine dry—30 p c ad valorem or Rs 5-12 per cwt. whichever is higher plus one-fifth of the total duty. U. K. 24 per cent.

Zinc white, genuine dry—30 p c ad valorem or Rs 6 per cwt. whichever is higher plus one-fifth of the total duty. U K. 24 per cent

Paints, other sorts, coloured, moist (i) in packing of 1 lb or over 36 p c ad valorem or Rs 10-8½ per cwt, whichever is higher, U K. 24 p c (ii) in packing of ½ lb and over but less than 1 lb 36 p c ad valorem or Rs. 13-8 per cwt, whichever is higher; U. K 24 p c (iii) in packing of ¼ lb. and over but less than ½ lb—36 p c. ad valorem or Rs 20-6 3/5 per cwt., whichever is higher; U K. 24 p c (iv) in packing of less than ¼ lb—36 p c ad valorem or Rs 28-12 4/5 per cwt, whichever is higher, U. K. 24 per cent

Barytes, turpentine, turpentine substitute, and varnish not containing dangerous petroleum within the meaning of the Indian Petroleum Act, 1934—30 p c

Plumbago and graphite—36 per cent ad valorem: Br. C. 24 p c. ad valorem.

POPULAR HANDBOOKS As. 5 each. Write to:—  
INDUSTRY BOOK DEPT., 22, R. G. Kar Road, Shambazar, Calcutta.

Printers' Ink—12 per cent ad valorem  
 Lead pencils—30 per cent ad valorem or one and one-fifth annas per dozen, whichever is higher  
 Slate pencils—30 per cent ad valorem  
 Natural Essential Oils—30 to 36 per cent ad valorem, Br C 24 per cent ad valorem  
 Essential Oils, synthetic—30 per cent ad valorem  
 Camphor—60 per cent ad valorem.  
 Soap, toilet—30 per cent ad valorem or Rs 24 per cwt whichever is higher

Soap, household and laundry— (a) in plain bars of not less than one pound in weight—Rs 4-12 4/5 per cwt, (b) Other sorts—Rs 7-12 per cwt

Polishes and composition—30 per cent ad valorem.

Candles—80 per cent ad valorem

Glue, not otherwise specified—30 per cent. ad valorem

Fireworks specially prepared as danger or distress lights for the use of ships—30 per cent ad valorem Fire works not otherwise specified 60 per cent ad valorem

Matches—In boxes or booklets containing on an average not more than 40 matches Rs 2-6½ per gross of boxes or booklets plus twelve annas per gross of boxes or booklet, In boxes or booklets containing on an average more than 40 but not more than 60 matches—Rs 3-9 3/5 per gross of boxes or booklets plus Re 1-4 annas per gross of boxes or booklets, In boxes or booklets containing on an average more than 60, but not more than 80 matches—Rs 4-12 4/5 per gross of boxes or booklets plus Re 1-8 per gross of boxes or booklets All other matches —9 3/5 annas for every 1,440 matches or fraction thereof plus one pie for every 48 matches or fraction thereof

Bengal Lights—12 annas per gross of boxes containing not more than 12 sticks

Undipped splints—6 as 9 p per lb Veneers 9 annas per lb

#### **HIDES & SKINS, RUBBER, TIMBER, PAPER, ETC.**

Hides and skins not otherwise specified—30 per cent

Hides and skins, raw or salted—Free

Skins (other than Fur Skins), tanned or dressed, and unwrought leather—30 per cent ad valorem

Saddlery, harness, trunks and bags—30 per cent ad valorem

Leather cloth including artificial leather, and other manufactures of leather not otherwise specified—30 per cent ad valorem

Fur Skins, dressed—30 per cent ad valorem

Rubber, raw—Free

Rubber tyres and tubes and other manufactures of rubber not otherwise specified excluding apparel and boots and shoes—30 per cent ad valorem

Wood and Timber, all sorts, not otherwise specified, including all sorts of ornamental wood—30 per cent ad valorem

Tea chests and parts and fittings thereof—30 per cent ad valorem;

Cork manufactures not otherwise specified—30 p c

Furniture of wickerwork or bamboo—30 per cent ad valorem;

Wood pulp—30 per cent ad valorem or Rs 36 per ton, whichever is higher

Paper, including poster and stereo and all coated papers except art papers, all sorts not otherwise specified—30 per cent ad valorem;

Printing paper excluding poster and stereo, and all coated papers, but including art paper, all sorts which contain no mechanical wood

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pulp or in which the mechanical wood pulp amounts to less than 70 per cent of the fibre content—10 4/5 pies per lb.

Printing paper, all sorts not otherwise specified which contain mechanical wood pulp amounting to not less than 70 per cent. of the fibre content—30 per cent ad valorem

Pasteboard, mill-board and cardboard and strawboards, all sorts, 30 per cent ad valorem

Writing paper—(a) Ruled or printed forms (including letter paper with printed headings) and envelopes made of writing paper and account and manuscript books and binding thereof—10½ pies per lb. or 30 per cent ad valorem, whichever is higher, (b) All other sorts—10½ pies per lb.

Trade catalogue and advertising circulars imported by packet, book, or parcel post—Free.

Paper money—Free

Newspapers, old in bales and bags—30 per cent ad valorem

Articles made of paper and paper mache, Stationery including drawing and copy books, labels, advertising circulars, sheet or card almanacs and calendars, Christmas, Easter and other cards, including cards in booklet forms, including also waste paper but excluding paper and stationery otherwise specified—30 per cent ad valorem

Books, maps, charts and plants, manuscripts, and illustrations specially made for binding in books—Free

Prints, Engravings and Pictures (including photographs and picture post cards) on paper or cardboard—60 per cent ad valorem

#### TEXTILE MATERIALS.

Silk, raw (excluding silk waste and noils), and silk cocoons—30 per cent ad valorem, plus Re 1½ anna per lb.

Silk waste and noils 30 per cent ad valorem.

Wool, raw, and wool-tops—Free.

Cotton, raw—One anna per lb.

Ram hemp—22½ per cent ad valorem.

Sisal and aloe fibre—36 per cent ad valorem Br C. 24 p c

Raw flax, jute and all other unmanufactured textile materials, not otherwise specified 30 per cent ad valorem.

Silk Yarn including thrown silk warps and yarn spun from silk waste or noils but excluding sewing thread—30 per cent ad valorem plus Re 1½ anna per lb.

Silk sewing thread—30 per cent ad valorem.

Artificial silk yarn and thread—30 per cent ad valorem or 6 annas per lb whichever is higher.

Woollen yarn not otherwise specified—30 per cent ad valorem.

Woollen yarn for weaving and knitting wool—30 per cent ad valorem.

Cotton twist and yarn, and cotton sewing or darning thread—(1) of British manufacture 6 per cent ad valorem; (2) not of British manufacture 7½ per cent.

Twist and yarn of flax or jute 30 per cent. ad valorem.

Yarn for Belting 7½ per cent ad valorem

Fabrics, not otherwise specified, containing more than 90 per cent of silk, including such fabrics embroidered with artificial silk—(a) Pongee—60 per cent ad valorem plus Re 1-3 1/5 as per lb., (b) Fuji, Boseki and corded (excluding white cord) 60 per cent ad valorem plus Re 1-12½ per lb., (c) Other sorts—60 per cent. ad valorem plus Rs 2-6½ as per lb.

Fabrics, not otherwise specified, containing more than 90 per cent of artificial silk—(a) of British manufacture—36 per cent. ad valorem

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or 2½ annas per square yard, whichever is higher, (b) not of British manufacture 60 per cent ad valorem or 4 annas per square yard, whichever is higher

Woollen fabrics, not otherwise specified containing more than 90 per cent of wool, excluding felt and fabrics made of shoddy or waste wool—30 per cent ad valorem or Re 1-5½ per lb whichever is higher

Cotton fabrics not otherwise specified, containing more than 90 per cent of cotton—(a) Grey piecegoods (excluding bordered grey chadars, dhuties, saris and scarves)—(i) of British manufacture—18 per cent ad valorem or 3½ annas per lb, whichever is higher, (ii) not of British manufacture—60 per cent ad valorem or 6½ annas per lb, whichever is higher, (b) Printed piecegoods and printed fabrics, (i) of British manufacture—21 per cent ad valorem, (ii) not of British manufacture 60 per cent ad valorem, (c) Cotton piecegoods and fabrics not otherwise specified—(i) of British manufacture—18 per cent ad valorem, (ii) not of British manufacture—60 per cent ad valorem

Fabrics, not otherwise specified, containing more than 10 per cent and not more than 90 per cent silk—(a) containing more than 50 per cent of silk or artificial silk or of both—60 per cent ad valorem plus Rs 2½ per lb, (b) containing not more than 50 per cent of silk or artificial silk or of both—(i) containing more than 10 per cent artificial silk—60 per cent ad valorem or Re 1-13 per lb, whichever is higher, (ii) containing no artificial silk or not more than 10 per cent artificial silk—60 per cent ad valorem

Fabrics, not otherwise specified, containing not more than 10 per cent silk but more than 10 per cent and not more than 90 per cent artificial silk—(a) containing 50 per cent or more cotton—(i) of British manufacture—36 per cent ad valorem or 2½ annas per square yard, whichever is higher, (ii) not of British manufacture—60 per cent ad valorem or 3 4/5 annas per square yard, whichever is higher, (b) containing no cotton or containing less than 50 per cent cotton—(i) of British manufacture—36 per cent ad valorem or 3 annas per square yard, whichever is higher, (ii) not of British manufacture—60 per cent ad valorem or 4 4/5 annas per square yard, whichever is higher

Fabrics, not otherwise specified, containing not more than 10 per cent silk or 10 per cent artificial silk, but containing more than 10 per cent but not more than 90 per cent wool—30 per cent ad valorem

Fabrics, not otherwise specified, containing not more than 10 per cent silk or 10 per cent artificial silk or 10 per cent wool, but containing more than 50 per cent cotton and not more than 90 per cent cotton (a) of British manufacture—30 per cent ad valorem, (b) not of British manufacture—60 per cent ad valorem

Fabrics, not otherwise specified, containing not more than 10 per cent silk or 10 per cent artificial silk or 10 per cent wool or 50 per cent cotton—30 per cent ad valorem

Sateens including Italians of Sateen weave, velvets and velveteens and embroidered all-overs—(a) of British manufacture—21 per cent ad valorem, (b) not of British manufacture—42 per cent ad valorem

Fabrics containing gold and silver thread—60 per cent ad valorem

Ribbons—60 per cent ad valorem

Blankets and rugs (other than floor rugs) excluding blankets and rugs made wholly or mainly from artificial silk—30 per cent ad valorem

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**MANUFACTURE OF SOAP?** Read "MANUFACTURE OF SOAP."  
INDUSTRY BOOK DEPT., 22, R. G. Kar Road, Shambazar, Calcutta.

Woollen carpets, floor rugs, shawls and other manufactures of wool, not otherwise specified, including felt—42 per cent ad valorem; U. K. 30 p c

Cotton, hair and canvas ply belting for machinery—7 4/5 per lb.

Oil cloth and floor cloth—30 per cent ad valorem.

Cordage, rope and twine of vegetable fibre other than jute and cotton—30 per cent ad valorem.

Coir fibre, coir yarn and coir mats—36 per cent ad valorem; Br. C: 24 per cent ad valorem

Mats and mattings—30 per cent ad valorem.

Socks and stockings made wholly or mainly from silk or artificial silk—60 per cent ad valorem.

Woollen hosiery and woollen knitted apparel, that is to say all hosiery, and knitted apparel containing not less than 15 per cent of wool by weight—30 per cent ad valorem or Re 1-5 3/5 per lb. whichever is higher

Cotton undervests, knitted or woven, and cotton socks or stockings (a) of a weight not exceeding 4 lbs per dozen—30 per cent ad valorem or 14 2/5 annas per lb whichever is higher, (b) of a weight exceeding 4 lbs per dozen—30 per cent ad valorem or 12 annas per lb. whichever is higher

Cotton knitted fabrics—60 per cent ad valorem or 14½ annas per lb. whichever is higher.

Apparel, hosiery, haberdashery, millinery and drapery, not otherwise specified—30 per cent ad valorem

#### FOOTWEAR, HATS, UMBRELLAS, ETC.

Boots and shoes 30 per cent ad valorem or 7½ annas per pair whichever is higher.

Uppers for boots and shoes unless entirely made of leather—30 per cent ad valorem or 3 3/5 annas per pair, whichever is higher.

Hats, caps, bonnets hatter's ware, not otherwise specified—30 per cent ad valorem

Umbrellas—30 per cent ad valorem or 9 3/5 annas each, whichever is higher

#### STONE, CERAMIC & GLASSWARE.

Article made of stone or marble—30 per cent ad valorem

Asbestos manufactures, not otherwise specified—30 per cent ad valorem

Building and Engineering materials 30 per cent ad valorem

Earthenware pipes and sanitary ware—30 per cent ad valorem.

Tiles of earthenware and porcelain—30 per cent ad valorem or 2½ annas per square foot, whichever is higher.

Covered crucibles for glass-making—30 per cent ad valorem

Glass and Glassware not otherwise specified, and lacquered ware—30 per cent ad valorem

Globes for hurricane lanterns—30 per cent ad valorem or 5 4/5 annas per dozen, whichever is higher.

Other globes and chimneys having an external base diameter of over one inch—30 per cent ad valorem or 3 3/5 annas per dozen whichever is higher

Electric lighting bulbs—60 per cent ad valorem

Glass bangles, glass beads and false pearls—60 per cent ad valorem.

#### PRECIOUS STONES.

Precious Stones, unset and imported uncut, and Pearls, unset—Free

**MANUFACTURE OF SOAP?** Read "MANUFACTURE OF SOAP." INDUSTRY BOOK DEPT., 22, R. G. Kar Road, Shambazar, Calcutta.



Precious Stones, unset and imported cut—30 per cent ad valorem.

Silver bullion and silver sheets and plates which have undergone no process of manufacture subsequent to rolling—3 3/5 annas per ounce

Gold bullion and gold sheets and plates which have undergone no process of manufacture subsequent to rolling—Free

Silver plate and silver manufactures, all sorts not otherwise specified—60 per cent ad valorem

Silver thread and wire and silver leaf including also imitation gold and silver thread and wire, lametta and metallic spangles and articles of like nature of whatever metal made—75 per cent ad valorem

Gold plate, gold leaf and gold manufactures, all sorts not otherwise specified—60 per cent ad valorem

Gold or gold-plated pen nibs—60 per cent ad valorem

Jewellery and Jewels—60 per cent ad valorem

### METALS AND METALWARES

Iron or Steel, old—18 3/4 per cent ad valorem

Iron alloys, viz, ferro-manganese, ferro-silicon, ferro chrome, spiegeleisen and the like as commonly used for steel making—18 1/2 per cent ad valorem

Iron or steel angle, channel, tee, flat, beam, zed, trough and piling—(a) not fabricated of British manufacture—Rs 6 1/2 per ton of 12 per cent ad valorem, whichever is higher, not of British Manufacture—Rs 58 per ton, (b) Fabricated Rs 55 1/2 per ton both for British and non-British Manufactures

Iron or steel bar and rod—(i) of British manufacture—Rs 18 1/2 per ton or 12 per cent ad valorem whichever is higher, (ii) not of British manufacture—Rs 53 1/2 per ton or 24 per cent ad valorem whichever is higher

Iron, pig—18 1/2 per cent ad valorem

Cast iron pipes and tubes, also cast iron fittings therefor, that is to say, bends, boots, elbows, tees, sockets, flanges, plugs, valves, cocks and the like—(i) of British manufacture—12 per cent ad valorem, (ii) not of British manufacture—Rs 69 per ton

Cast iron plates—18 1/2 per cent ad valorem

Steel Ingots, Iron or steel blooms, billets and slabs, provided that no piece less than 1 1/2 inches square or thick shall be included—Rs. 4 1/2 per ton or 18 1/2 per cent ad valorem whichever is higher

Iron or steel structures, fabricated partially or wholly, not otherwise specified—Rs 55 1/2 per ton both for British and non-British manufactures.

Steel, tinplates and tinned sheets, including tin taggers, and cuttings of such plates, sheets or taggers—(i) of British manufacture—Rs 52 1/2 per ton, (ii) not of British manufacture—Rs 78 per ton

Iron or steel Anchors and Cables—18 1/2 per cent ad valorem

Iron or steel bolts and nuts, including hook-bolts and nuts for roofing but excluded fish bolts and nuts—(i) of British manufacture—Rs 7 1/2 per ton or 12 per cent ad valorem whichever is higher, (ii) not of British manufacture—Rs 44 7/10 per ton

Iron or Steel fish bolts and nuts—(i) of British manufacture—Rs 7 1/2 per ton or 12 per cent ad valorem whichever is higher, (ii) not of British manufacture—Rs 110 7/10 per ton

Iron or Steel expanded metal—18 1/2 per cent ad valorem

Iron or Steel hoops and strips—24 per cent ad valorem, U K., 12 per cent ad valorem

Up-to-date methods of production, preservation and marketing of fruits are given in ALL ABOUT FRUITS Rs. 2/8. Industry Book Dept, Cal.

Iron or Steel rivets—(1) of British manufacture—Rs. 7½ per ton or 12 per cent ad valorem, whichever is higher; (11) not of British manufacture—Rs 7½ per ton plus Rs 2-4 per cwt

Iron or Steel nails and washers, all sorts not otherwise specified—18½ per cent ad valorem

Iron or Steel pipes and tubes and fittings therefor, if riveted or otherwise built up of plates or sheets (1) of British manufacture—Rs 21½ per ton or 12 per cent ad valorem, whichever is higher (11) not of British manufacture—Rs 49½ per ton

Iron or Steel pipes and tubes, also fittings therefor, that is to say, bends, boots, elbows, tees, sockets, flanges, plugs, valves, cocks and the like, excluding pipes, tubes and fittings therefor otherwise specified 18½ per cent ad valorem.

Iron or Steel plates excluding cast iron plates; (a) not fabricated (1) of British manufacture—Rs 6½ per ton or 12 per cent ad valorem whichever is higher, (11) not of British manufacture—Rs 36½ per ton; (b) fabricated—Rs 55½ per ton.

Iron and Steel sheets, fabricated (1) not galvanized (1) of British manufacture—Rs 19½ per ton or 12 per cent ad valorem whichever is higher; (11) not of British manufacture—Rs 44½ per ton, (2) Galvanized (1) of British manufacture—Rs 19½ per ton or 12 per cent ad valorem, whichever is higher, (11) not of British manufacture Rs. 54½ per ton

Sleepers—Rs 6½ per ton

Spikes (other than Dogspikes) and the bars—(1) of British manufacture—Rs 18½ per ton or 12 per cent ad valorem whichever is higher; (2) not of British manufacture—Rs 53½ per ton Dogspikes (1) of British manufacture—Rs 7½ per ton plus 8½ annas per cwt, or 12 per cent ad valorem, whichever is higher, (11) not of British manufacture—Rs 7½ per ton plus Rs 3-8½ per cwt

Iron or Steel barbed or standard wire and wire rope—24 per cent ad valorem, U K; 12 per cent ad valorem

Iron or Steel wire, other than barbed, or standard wire, wire rope or wire netting, and iron or steel wire nails—(1) of British manufacture—Rs 37½ per ton; (11) not of British manufacture Rs 79½ per ton.

Enamelled ironware—(a) Signboards 30 per cent ad valorem or 6 3/10 annas per square foot, whichever is higher

Copper, wrought, and manufactures of copper, all sorts not otherwise specified—36 per cent ad valorem, U K 24 per cent ad valorem.

Copper Scrap—30 p c ad valorem

German Silver including nickel silver—30 per cent ad valorem.

Aluminium-circles sheets and other manufacture not otherwise specified—30 per cent ad valorem.

Lead wrought and Lead sheets for tea chests—30 per cent ad valorem

Zinc or spelter, wrought or manufactured, not otherwise specified—30 per cent ad valorem

Tin, Block—Rs 375 per ton

Brass, bronze and similar alloys, wrought, and manufactures thereof not otherwise specified—30 per cent ad valorem.

Hardware, ironmongery and tools, all sorts not otherwise specified including incandescent mantles but excluding machine tools and agricultural implements—30 per cent ad valorem

Cutlery all sorts, not otherwise specified—30 p c ad valorem

Buckets of tinned or galvanized iron and pruning-knives—30 per cent ad valorem

Metal furniture and cabinetware—30 per cent ad valorem

Printing type—One anna and six pies per lb.

Up-to-date methods of production, preservation and marketing of fruits are given in ALL ABOUT FRUITS, Rs. 2/8. Industry Book Dept, Cal.

Leads, brass rules, wooden and metal quoins, shooting sticks and galleys and metal furniture—3 per cent ad valorem

### **MACHINERY, APPARATUS & ELECTRICAL GOODS.**

Textile machinery and apparatus—12 per cent ad valorem

Printing and Lithographic Materials—12 per cent ad valorem

Component parts of machinery—12 per cent ad valorem

Domestic Refrigerators—36 per cent ad valorem, U K, 24 per cent ad valorem

Machinery and component parts thereof, meaning machines or parts of machines to be worked by manual or animal labour, not otherwise specified and any machines which require for their operation less than one-quarter of one brake-horse power—30 per cent ad valorem

Water-lifts, sugar-mills, sugar centrifuges, sugar pug mills, oil presses and parts thereof (for manual and animal power)—Free

Agricultural Implements—Free

Dairy and Poultry Farming Appliances namely cream separators, etc.—Free

Sewing and Knitting machines—36 per cent ad valorem, U. K, 24 per cent ad valorem

Electrical Instruments, apparatus, appliances—36 per cent ad valorem, U K, 24 per cent ad valorem

Electrical earthen ware and porcelain—30 per cent ad valorem

Rubber-insulated copper wire and cables—7½ per cent ad valorem.

### **SCIENTIFIC INSTRUMENTS, WATCHES & MUSICAL INSTRUMENTS.**

Instruments, apparatus and appliances other than electrical, all sorts not otherwise specified including photographic—36 p c ad valorem, U K, 24 p c ad valorem

Scientific, philosophical and surgical, optical instruments, apparatus and appliances—30 p c ad valorem

Artificial Teeth—30 per cent ad valorem, B. C, 18 per cent ad valorem

Clocks and watches and parts thereof—60 per cent ad valorem

Musical Instruments and parts thereof, all sorts and records for talking machines—60 per cent ad valorem

### **TRANSPORT MATERIALS.**

Coal tubs, tipping wagons and the like conveyances designed for use on light rail track, if adapted to be worked by manual or animal labour and if made mainly of iron or steel, and component parts thereof made of iron or steel—(i) of British manufacture—Rs 7½ per ton or 12 per cent ad valorem, whichever is higher; (ii) not of British manufacture—Rs 55 1/5 per ton, or 24 per cent ad valorem, whichever is higher

Railway materials for permanent-way and rolling-stock, namely, sleepers, other than iron and steel, and fastenings therefor, bearing plates, chairs, interlocking apparatus, brake-gear, shunting skids, couplings and springs, signals, turn-tables, weigh-bridges, carriages, wagons, traverses, rail removers, scooters, trollies trucks, also cranes, water cranes and water-tanks when imported by or under the orders of a railway administration—18½ per cent ad valorem

Motor cars including taxi cabs and articles (other than rubber tyres and tubes) adapted for use as parts and accessories thereof—45 per cent ad valorem U K, 36 p c ad valorem

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Motor omnibuses, chassis of motor omnibuses, motor vans and motor lorries, and parts of mechanically propelled vehicles and accessories not otherwise specified, excluding rubber tyres and tubes, and such parts and accessories of motor vehicles included in this item as are also adapted for use as parts and accessories of motor cars—30 per cent ad valorem, U. K.; 27 per cent ad valorem.

Carriages and carts which are not mechanically propelled, not otherwise specified 30 per cent ad valorem

Cycles (other than motor cycles) and parts excluding rubber tyres and tubes—36 per cent ad valorem; U. K.; 24 p.c ad valorem

Aeroplanes, aeroplane parts, aeroplane engines, aeroplane engine parts and rubber tyres and tubes used exclusively for aeroplanes—3 per cent ad valorem

Ships and other vessels for inland and harbour navigation, including steamers, launches, boats and barges imported entire or in sections —18½ per cent ad valorem

Light ships—Free.

### MISCELLANEOUS.

Brushes, all sorts—30 per cent ad valorem.

Toys, games, playing cards and requisites for games and sports, bird shot, toy cannons—60 p.c ad valorem

Buttons, metal—30 per cent ad valorem.

Smokers' requisites excluding tobacco and matches—60 per cent ad valorem

Specimens, of natural science, medals, antique coins—Free

All other articles not otherwise specified including articles imported by post 30 p.c ad valorem

### EXPORT TARIFF.

Raw Jute:—(1) Cuttings Re 1-4 as per Bale of 400 lbs. (2) All other descriptions Rs 4-8 per Bale of 400 lbs

Jute Manufactures, when not in actual use as coverings, receptacles or bindings, for other goods—

(1) Sacking (cloth, bags, twist, yarn, rope and twine) Rs 20-0 per ton of 2,240 lbs. (2) Hessians and all other descriptions of jute manufactures not otherwise specified Rs 32 per ton of 2,240 lbs.

Rice.—Rice husked or unhusked, including rice flour but excluding rice bran and rice dust which are free—2½ as per md of 82 2/7 lbs

### EXCISE DUTY.

Salt—Re 1-9 per md.

Khandari Sugar—As. 8 per cwt.

All other sugar except palmyra sugar—Rs 3 per cwt.

Kerosene oil—2 as 9½ pies per Imperial gallon.

Motor Spirit—15 annas per Imperial gallon.

Matches —(1) In boxes or booklets containing on an average 40 matches—Rs. 2 per gross, (2) Do. Containing more than 40 but less than 50 sticks—Rs 2-8 per gross, (3) Do Containing more than 50 but less than 60 matches—Rs. 3 per gross, (4) Do. containing more than 60 but less than 80—Rs 4 per gross, (5) In boxes containing on an average not more than 12 matches of the type known as "Bengal lights"—10 annas per gross of boxes, (6) All other matches—8 annas for every 1,440 matches or fraction thereof.

Steel, ingots—Rs 4 per ton.

Mechanical lighters—Rs 3 per lighter

Silver—3 as 7½ pies per oz.

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**AGRICULTURAL PRODUCE CESS ACT, 1940.**

In exercise of the powers conferred by sub-section (2) of section 3 of the Agricultural Produce Cess Act, 1940 (XXVII of 1940), the Central Government is pleased to fix, with effect from the 1st July 1941, for the articles specified in column 2 of the Schedule hereto annexed, being the articles enumerated in the Schedule to the said Act, the tariff values specified in corresponding entry in column 3 thereof.—

Serial No	Name of Article	Tariff Value			
		Per	Rs	As	P.
1	<b>Bones—</b>				
	Bones broken or crushed (including bone grist)	Cwt	3	8	0
3	<b>Butter</b>	lb.	1	4	0
4	<b>Cereals, other than wheat and rice—</b>				
	Bajri	Cwt	5	8	0
	Barley	"	4	10	0
	Jowar	"	5	0	0
	Maize	"	5	0	0
6	<b>Fibre—</b>				
	For brushes, all kinds	"	14	0	0
8	<b>Fruits—</b>				
	Almonds in the shell	Cwt	34	0	0
	Almonds without shell	"	106	0	0
	Cashew kernels	"	60	0	0
	Coconuts	Thousand	45	0	0
	Raisins, all kinds	Cwt	23	0	0
	Tamarind	"	7	0	0
	Walnut in the shell	"	23	0	0
	Walnut kernel	"	35	0	0
9	<b>Ghee</b>	Indian Md	61	0	0
	Ghee substitute	Cwt	32	0	0
10	<b>Hides, raw—</b>				
	Buffalo hides—(i) Arsenicated	lb	0	6	0
	(ii) Salted	"	0	4	0
	Cow hides—(i) Arsenicated	"	0	8	6
	(ii) Salted	"	0	5	6
11	<b>Manures of animal origin, all kinds</b>	Cwt	3	8	0
12	<b>Oilcakes—</b>				
	Groundnut oilcakes	Ton	35	0	0
	Groundnut oilcake meal	"	37	8	0
	Linseed oilcakes	"	45	0	0
	Oilcakes other kinds	"	40	0	0
13	<b>Pulses—</b>				
	Dal, all kinds	Cwt	3	8	0
	Pulses all kinds	"	7	0	0
14	<b>Seeds—</b>				
	Ajwan	"	9	8	0
	Aniseed	"	13	0	0
	Castor seed	"	7	12	0
	Celery seed	"	45	0	0
	Coriander seed	"	8	8	0
	Cotton seed	"	4	0	0
	Mustard and rape seeds	"	7	8	0

Valuable directions for construction of aërials and receivers are explained in **RADIO RECEPTION IN THEORY & PRACTICE**. Price Rs. 2/8.

Serial No.	Name of Article	Tariff Value.			
		Per	Rs	As	P.
	Linseed	"	8	0	0
	Niger seed	"	5	0	0
	Til (Sesamum)	"	8	8	0
15	<b>Skins, raw—</b>				
	Goat skins	Piece	1	2	0
	Sheep skins	"	0	10	0
16	<b>Spices—</b>				
	Chillies, dry	Cwt	15	8	0
	Ginger, dry	"	25	0	0
	Pepper, black	"	20	0	0
	Turmeric	"	12	0	0
17	<b>Tobacco, unmanufactured—</b>				
	Class I—Flue cured	lb.	0	6	0
	Non-flue cured	"	0	3	0
	Chewing bidi, cheroot and cigar tobacco	"	0	3	0
18	<b>Vegetables—</b>				
	Garlic	Cwt	15	0	0
	Onions	"	5	0	0
	Potatoes	"	6	8	0
19	<b>Wheat, all kinds</b>	"	7	0	0
20	<b>Wheat flour—</b>				
	Wheat atta	"	8	8	0
	Wheat flour and suji	"	9	8	0

## INDIAN CUSTOMS AND CENTRAL EXCISE REVENUE.

The total Customs and Central Excise Revenues realised in the year 1941-42 was Rs 52,77 lakhs as compared with Rs 50,99 lakhs during the same period last year. Of this amount, import duties accounted for Rs 35,76 lakhs, export duties for Rs 3,55 lakhs, land customs and miscellaneous for Rs 64 lakhs and central excise duties for Rs 12,83 lakhs. Comparing the figures for the year ending March 1942, with those for the preceding year, there were increases under import duties on raw cotton, kerosene, tobacco, silver bullion, coin, sheets, plates and other manufactures, machinery, liquors, spices, batching fuel and lubricating oils, tin (block), wireless reception instruments and apparatus, electric lighting bulbs, and cinematograph films, and the export duties on raw jute, rice and other agricultural produce and the excise duties on sugar, matches and steel ingots. On the other hand import duties on cotton fabrics, artificial silk fabrics, motor spirit, artificial silk yarn and thread, betelnuts, sugar, iron and steel, motor vehicles, silk fabrics, cotton yarn and thread, metals other than iron and steel, raw silk, silk yarn and thread, pneumatic rubber tyres and tubes, railway plant and rolling stock, fabrics of artificial silk mixed with other materials, paper and stationery, and toys, games and sports goods and the export duty on manufactured jute and the excise duties on motor spirit and kerosene showed decreases.

Valuable directions for construction of aerials and receivers are explained in **RADIO RECEPTION IN THEORY & PRACTICE**, Price Rs. 2/8.

# IMPORTS & EXPORTS DURING 1941-42.

## IMPORTS OF FOREIGN MERCHANDISE

	1938-39	1939-40	1940-41	1941-42
	(in lakhs of rupees)			
<b>I. Food, Drink and Tobacco—</b>	6	7	7	6
Fish (excluding canned fish)	1,34	1,21	1,02	1,12
Fruits & Vegetables	13,76	21,81	14,35	15,02
Grain, Pulse and Flour	1,66	1,74	1,60	2,14
Liquors	2,48	2,63	2,26	2,56
Provision and oilman's stores	2,63	2,55	2,19	2,22
Spices	46	3,32	36	1,08
Sugar	16	16	13	12
Tea	38	63	50	1,01
Other Food and Drink	1,05	1,17	1,34	2,52
Tobacco				
<b>TOTAL</b>	<b>24,00</b>	<b>35,29</b>	<b>23,82</b>	<b>27,84</b>
<b>II Raw Materials &amp; Produce and articles mainly un-manufactured.</b>				
Coal	7	2	1	3
Other non-metallic mining and quarry products	1,75	1,48	1,13	1,12
Gums, Resins and Lac	38	53	38	51
Hides and Skins, raw or undressed	16	19	17	32
Metallic ores and scrap iron or steel for re-manufacture	5	7	7	14
Oils—Vegetable, Mineral and animal	15,62	18,64	21,03	21,85
Paper-making materials	27	24	13	11
Rubber, raw or crude	11	19	32	80
Seeds, including nuts fruits	71	88	1,54	1,98
Tallow, stearine and wax	36	38	31	58
Cotton, raw and waste	8,51	8,05	9,43	15,34
Silk, raw and cocoons	62	63	76	81
Wool, raw	62	75	2,79	2,77
Other textile materials	5	10	30	32
Wood and Timber	2,58	2,43	2,61	2,75
<b>TOTAL</b>	<b>33,18</b>	<b>36,13</b>	<b>42,10</b>	<b>50,05</b>
<b>III Articles wholly or mainly manufactured—</b>				
Apparel	63	48	37	32
Arms and Ammunition	50	49	48	49
Chemicals, Drugs and Medicines	5,62	7,50	8,07	8,76
Cutlery, Hardware, Implements and Instruments	5,81	5,57	5,05	5,44
Dyes and Colours	4,06	4,67	6,38	6,96
Electrical goods and apparatus	3,31	2,87	2,49	2,40
Furniture, etc	45	39	41	18
Glassware and Earthenware	1,65	1,38	1,17	1,01
Hides and Skins, Tanned and Leather	53	54	48	63
Machinery	19,72	15,87	11,83	13,73
Metals—Iron and Steel and manufactures thereof	6,66	6,07	6,81	6,30
Metals other than Iron and Steel and manufactures thereof	4,16	4,73	5,01	6,34
Paper, Pasteboard and Stationery	3,90	4,11	4,51	4,07
Rubber manufactures	1,41	1,48	1,56	1,55
Vehicles (including locomotives etc for Railways)	6,69	6,87	6,82	13,04

For detailed methods of construction of radio sets consult RADIO RECEPTION IN THEORY & PRACTICE. Rs 2/8. Industry Book Dept.

	1938-39	1939-40	1940-41	1941-42
	(in lakhs of rupees)			
Cotton Yarns and Manufactures	74.15	14.05	11.35	6.79
Jute Yarns and Manufactures	6	6	8	6
Silk Yarns and Manufactures	1.32	1.19	96	68
Woollen Yarn and Manufactures	2.20	1.41	1.50	1.93
Other Yarns and Textile Fabrics	3.51	6.08	7.32	4.97
<b>TOTAL</b>	<b>92.79</b>	<b>91.79</b>	<b>89.51</b>	<b>93.68</b>
<b>IV. Other Items :—</b>				
Living Animals	30	16	6	2
Postal Articles	1.93	1.76	1.35	1.61
Articles imported as baggage	15	14	14	10
<b>TOTAL</b>	<b>2.38</b>	<b>2.06</b>	<b>1.55</b>	<b>1.73</b>
<b>GRAND TOTAL</b>	<b>Rs 1,52.37</b>	<b>1,65.29</b>	<b>1,56.97</b>	<b>1,73.30</b>

**EXPORT OF INDIAN MERCHANDISE.**

	1938-39	1939-40	1940-41	1941-42
	(in lakhs of rupees)			
<b>I. Food, Drink &amp; Tobacco,</b>				
Fish (excluding canned fish)	69	70	63	60
Fruits and Vegetables	2.27	2.37	2.44	3.09
Grain, Pulse & Flour	7.74	5.09	5.91	10.42
Provisions and Oilman's Stores	59	71	73	79
Spices	79	1.27	89	1.13
Sugar	24	8	27	32
Tea	23.29	26.31	27.79	39.28
Other Food & Drink	76	78	29	44
Tobacco	2.76	2.53	2.88	2.20
<b>TOTAL</b>	<b>39.14</b>	<b>39.84</b>	<b>41.84</b>	<b>58.30</b>
<b>II. Raw Materials &amp; Articles Mainly Unmanufactured.</b>				
Coal	1.32	1.89	1.85	1.46
Other Non-metallic Mining and Quarry Products	1.21	1.88	1.61	2.95
Gums, Resins and Lac	1.50	2.22	2.51	5.44
Hides & Skins, Raw or Undressed	3.85	4.11	3.14	4.77
Metallic Ores and Scrap Iron or Steel for Remanufacture	1.67	2.28	1.83	2.92
Oil—Vegetables, Mineral & Animal	1.03	1.37	2.40	2.64
Oilcakes of all kinds	3.01	2.03	84	37
Paper Making Materials	5	5	7	8
Rubber, Raw or Crude	72	94	92	73
Seeds (including nuts for oils)	15.09	11.90	10.05	10.05
Tallow, Stearine and Wax	3	3	5	7
Cotton, Raw and Mnfr.	24.67	31.05	24.46	17.55
Jute	13.40	19.83	7.85	10.47
Silk	2	4	3	9
Wool	2.99	3.22	1.64	2.60
Other textile materials	73	87	76	96
Wood & Timber	18	17	24	20
<b>TOTAL</b>	<b>73.29</b>	<b>85.99</b>	<b>61.86</b>	<b>65.33</b>
<b>III. Article Wholly or Mainly Manufactured</b>				
Apparel	34	43	68	75
Chemicals, Drugs and Medicine	44	56	65	95

For detailed methods of construction of radio sets, consult **RADIO RECEPTION IN THEORY & PRACTICE**. Rs. 2/8. Industry Book Dept.



## 224 INDUSTRY YEAR BOOK & DIRECTORY, 1943

	1938-39	1939-40	1940-41	1941-42
	(in lakhs of rupees)			
Cutlery, Hardware, Implements and Instruments	42	47	64	73
Dyes and Colours	72	70	63	59
Furniture, etc	8	7	3	3
Glassware and Earthenware	2	3	7	13
Hides & Skins, Tanned Or dressed Leather	5,28	7,70	5,99	6,03
Machinery	3	4	5	7
Metals—Iron & Steel & Mnfrs thereof	3,02	3,99	5,05	3,54
Metals other than Iron & Steel	22	19	25	55
Paper, Paste-board and Stationery	13	18	41	40
Rubber Manufactures	4	10	41	47
Vehicles	2	—	2	1
Cotton Yarns and Manufactures	7,12	8,58	16,49	36,07
Jute	26,26	48,72	45,38	53,78
Silk	2	3	2	3
Woollen	86	81	73	79
Other Yarns and Textiles Fabrics	17	33	67	1,38
<b>TOTAL</b>	<b>47,61</b>	<b>75,83</b>	<b>81,07</b>	<b>1,09,26</b>
<b>IV Other Items</b>				
Living Animals (Horses, Cattle, Sheep, Goats, etc)	8	8	7	8
Postal Articles	2,67	2,19	2,06	4,25
<b>TOTAL</b>	<b>2,75</b>	<b>2,27</b>	<b>2,13</b>	<b>4,33</b>
<b>GRAND TOTAL</b>	<b>1,62,79</b>	<b>2,03,92</b>	<b>1,86,90</b>	<b>2,37,22</b>

### EXPORTS OF FOREIGN MERCHANDISE

	1938-39	1939-40	1940-41	1941-42
	(in lakhs of rupees)			
Fruits & Vegetables	11	9	9	24
Grain, Pulse & Flour	6	5	11	27
Sugar	—	55	16	71
Tobacco	—	2	3	37
Spices	—	7	7	11
Gum, Resins & Lac	—	5	4	10
Hides & Skins	2,19	4,51	5,17	6,19
Cotton Raw & Waste	16	13	15	36
Wool	31	58	79	87
Chemicals	7	9	14	15
Cutlery, hardware, etc	43	45	55	46
Dyes & Colour	7	7	11	12
Electrical goods	7	8	13	9
Machinery	18	17	32	19
Metals	22	20	30	14
Vehicles	45	49	74	57
Cotton Yarns & Mnfrs	45	40	1,03	1,92
Silk	17	14	10	9
Woollen	12	13	12	22
Other	50	65	86	1,36
<b>TOTAL</b>	<b>6,42</b>	<b>9,65</b>	<b>11,81</b>	<b>15,33</b>

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## REVIEW OF TRADE & INDUSTRIES DURING 1942-43

**E**CONOMIC conditions in India during 1942-43 continued to be influenced by the broadening shadows of the global war which has now assumed tremendous dimensions. The trade restrictions regarding imports and exports combined with the commanding of a large percentage of the country's industrial and agricultural products by the Government had a most distressing influence on trade. The paucity of railway transport facilities further accelerated the difficulties in the way of normal trade. The stocks of manufactured goods and raw commodities as well continued to run out in the face of increased demand and reached the lowest level recorded in the history of India with the consequence that the prices of commodities reached a peak value to the great dismay of the Indian people.

Money market during year under review continued to suffer from a plethora of funds. The money rates at the beginning of the year were quoted at as low as  $\frac{1}{4}$  per cent, these however improved to 1 per cent during the middle of April in consequence of demand for funds resulting partly from migration of the population to up-country places but the rate slipped back to  $\frac{1}{4}$  per cent by the end of April and remained unaltered at that level. Towards the close of the financial year 1942-43 slightly improved demand for money was in evidence. This is reflected in the rapid rise in the Scheduled Banks' advance. In spite of trading activity in the local share, cotton and commodity markets, which, under normal conditions, would have brought about some demand for funds, there is a complete absence of enquiry from these quarters. Inter-bank call money is quoted nominally at  $\frac{1}{4}$  per cent per annum, while the rates for three to six months' deposits vary between  $\frac{3}{4}$  and 1 per cent per annum.

The paucity of the trade demand for money induced an all round improvement in the prices of Government securities whilst added buoyancy was lent to securities market by the favourable turn of war for the United Nations. Thus in September the Central Government was enabled to raise the minimum prices fixed for their own and Provincial Governments' issue, prices of which closed comfortably above these new minimum. Government of India  $3\frac{1}{2}$  per cent Rupee paper which was quoted at the beginning of July last at around Rs 91 improved by mid-September to Rs 94 at around which level the price remained until the end of March. The first defence loan was sold at the close of March at about Rs 103.

The rupee sterling exchange market was steady throughout the year and ranged round 1s 6d. Sterling purchases from 1st April 1942 to 31st January, 1943, amounted to £62,824,000. These amounted to £57,083,000 in 1940-41 and £73,319,000 in 1941-42.

In 1942-43 there was a wide fluctuations in the gold and silver market of India. Throughout the year internal demand for gold kept its prices over export parity, and, with the free flow of silver from

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outside greatly restricted, prices in this section were largely influenced by speculative buying. During the year under review there was no export of gold from India to foreign countries. While price of gold was Rs 57.12 per tola on 12th March, 1942, there was a definitely upward tendency in gold price rising to Rs 72 per tola on 8th Nov 1942. Though the price of gold came down to Rs 62.1 during the month of December, it has again reached the height of Rs 72 during the month of March, 1943. During the beginning of the year the silver market was featureless. But from Rs 71 per 100 tolas in January 1942, the price of silver rose to Rs 108 in December and in March, 1943, it has reached Rs 111 per 100 tolas.

The year under review saw the complete liquidation of India's sterling debts, due to the increasing sterling balances as a result of purchases made by His Majesty's Government either on its own account or on that of others. But there is absence of a corresponding rise in the rupee debts, for the Government of India has successfully employed other resources such as sales of silver and profits from currency.

The year is remarkable for considerable currency expansion. While in 1939, just on the eve of war, total notes in circulation in India were Rs 172.36 crores, the quantity has mounted upto the figure of Rs 646.50 crores on the 12th March, 1943.

The Central Government came twice on the market, firstly with a third Defence Loan, in the shape of a fresh issue at par of the 3 per cent Loan repayable in 1951/54, and, secondly with an offer at Rs 95 per cent of a further Rs 15 crores of the 3 per cent 1963/65 Loan. Four of the Provincial Governments successfully floated 3 per cent Loans repayable in 1955, for an aggregate amount of Rs 7½ crores, at issue prices ranging between Rs 97 per cent and Rs 98.8 per cent.

#### LEASE-LEND AID.

A special report on Lease-Lend Aid to India by the U S Office of war information states that the Lease-Lend programme for India includes improvements of Indian harbours and railway systems and increased shipments of machine tools and raw materials to enable expanded production on the spot of munitions and other supplies to save shipping from the United States and England. From its inception in March, 1941 to 1st January this year (1943), Lease-Lend aid to India has amounted to 295,501,494 dollars (Rs 100 crores) in value. Two thirds of the materials sent were actual war materials. The remaining third consisted mainly of machinery and tools. Increased quantities of American steel are going to India for the manufacture of armoured vehicles, artillery and ammunition. Lease-Lend supplies to India ranged from flash lights to locomotives. Under the Reciprocal Lease-Lend Agreement with Britain, the United States has also drawn upon British stores of ammunition and food in India, and American ships are repaired and obtain fuel and supplies in Indian Ports without payment, under Reciprocal Lease-Lend.

#### GRADY MISSION

One of the most outstanding events in the field of India's industrialisation plan, was the visit in the early summer of 1942 of the American Technical Mission, headed by Dr Henry Grady. The Mission made a rapid but intensive survey of India's war industries and submitted its comprehensive report to the United States' Government.

The U S Technical Mission's preliminary report says that, in India most of the engineering workshops engaged upon war production are historically and actually jobbing shops. A basic change in the production methods must be introduced. The Mission cannot advise upon the

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precise Government organisation most suitable to the solution of the problem. It can merely state the problem and leave the Government of India to find the most suitable solutions. Various possibilities have been suggested to the Mission:—

(a) A high-powered control independent of established Government agencies on American model,

(b) The separation of "Production" and "Supply" and the establishment of a new department for the former.

(c) The division of the Supply Department into two parts, one dealing with "Production" and the other with "Supply",

(d) The establishment of a War Cabinet with a strong secretariat to control war production in all its phases. The War Cabinet should consist of members responsible for Production, Transport and Communications, Defence and Finance. The last suggestion appeals to the Mission as being sound and feasible.

The war has imposed severe strains upon the railways, the ports and the telegraph and telephone systems. Immediate and systematic steps must be taken to deal with the resultant problems. With the approval of the Government of India the Mission has recommended to the United States Government the loan to India in an advisory capacity of an outstanding railway administrator, with two assistants who will be expert in operation and maintenance respectively.

The Mission specially recommends a further investigation into the possibility of producing power alcohol, further measures to extend the availability of electric power, and to rationalise the use of electric power, the expansion of the steel industry; the rationalisation of plants producing munitions, concentration in respect of air-craft and ships upon repairs rather than new construction, the manufacture in India of a general purpose, military radio set, measures to stimulate the production of aluminium; measures to conserve tin and rubber, adjustment in the arrangements for the treatment of timber, and the acceleration of the production of refined sulphur.

Besides these, the Mission has asked for the services of a number of technicians of the foreman and shop superintendent type to be employed by the Government of India in war plants for a period of one year and of two shop superintendents to be employed in the steel industry for a longer period. In addition, the Mission has asked the Government of the United States to secure, without expense to the Government of India, six industrial executives to act under the direction of the Government of India as advisers to war production plants. The Mission contemplates a continuing organisation in the United States until its task is completed, and hopes to have an adviser attached to the office of the Representative of the United States in India at New Delhi, who will work closely with the Government of India in co-ordinating the war production programme of India with that of the United States.

The Mission, further, suggests a substantial increase in the Indian Army and in the matter of equipment further intensification of production effort to meet the increasing needs.

### INDUSTRIAL PRODUCTION.

On account of absence of accurate and up-to-date statistical data relating to industrial production, it is not possible to gauge exactly the trend of progress achieved in this sphere. But such data as are available go to show that industrial production, especially such for war purposes, has been more than maintained. Orders for engineering

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stores and those for chemicals placed by the Supply Department exceeded Rs 4 crores and 16½ crores respectively per month during the year. Steel production is 33½ per cent higher than at the beginning of the war. Besides these, the production of a large number of articles such as leather goods, drugs, tyres and plastics, has made a great headway. There are also the non-ferrous metal industry, munitions plants, silk, wollen, cotton industries, machine tool manufacture,—practically a large quantity of output of which has been harnessed to meet the defence needs.

The value of textiles purchased for the armed forces up to June 1942 amounted to Rs 120 crores (£90 millions). In 1942-43 it is expected to be nearly Rs 70 crores. The value of tents during the present year is Rs 12 crores (£3.75 millions). Output of clothing is now over 10,000,000 garments a month and during this year about 540,000,000 yards of cloth will be used for clothing manufacture. Before the war the Army was clothed by one factory, there are now 10 clothing factories linked with a large number of tailoring centres, employing 100,000 men in all. A parachute factory has also been opened for the production of parachute equipment.

The Government Harness Saddlery Factory, which also produces web equipment paulins, and other canvas goods, has expanded its working staff from 2,000 to 15,000 men. The combined total output of the harness and saddlery factory, the branch factories, and their contractors is valued at approximately Rs 20 crores per annum, and practically the whole of this is derived from indigenous sources.

The production of all tanneries capable of making leather to Government standards is being organised and controlled. Supplies of leather for the current year are expected to reach a figure seven times in excess of that of 1940-41.

Manufacture by Indian industrial concerns of heel and toe tips has been developed from nil to a capacity equal to meet the demands of 1942-43, amounting to 8½ millions each of heel and toe tips. Capacity for manufacture of further items, such as hobnails, is under investigation. Production of Army boots in India had been increased from 1½ million pairs in 1941 to a present output of over 4 million pairs.

Timber production has increased from 242,000 tons in 1940-41 to 396,000 tons in 1941-42 and is expected to reach a total of about 500,000 tons valued at about Rs 6,00,000 in 1942-43. Apart from its use in packing cases, ammunition boxes, railway sleepers, huts and telegraph poles, Indian timber is extensively used for the load carrying bodies of any vehicles. An even greater increase is evident in the woodware industries. The value of wooden articles produced for war purposes having increased from Rs 2,80,00,000 in 1941-42 is expected to reach about Rs 4,50,00,000 in 1942-43.

### SMALL-SCALE INDUSTRIES

The small-scale industries of India have slowly but steadily come to occupy a prominent place in the war efforts of this country. In spite of inadequate equipment, they have been able to display an amazing versatility of skill and craftsmanship. Small-scale industries will be executing war orders to the value of Rs 10 crores for 1942-43, as against Rs 5 crores during 1941-42.

In recent time indigenous production of medical instruments for the Defence Services was small, and limited to a few simple instruments. Since the war the authorities have been faced both with the supply of large quantities of instruments as well as the development

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of indigenous production of instruments which were previously imported. Not only has the indigenous industry practically kept pace with Defence Services demands, but it has enabled India to supply Russia with approximately 80,000 instruments of indigenous production. The approximate value of all instruments etc. inspected and accepted averages monthly from Rs 4 to Rs 5 lakhs.

A noteworthy feature in this connection is the introduction of co-operative method wherever local conditions are found suitable, so that the primary producer rather than the middleman is able to benefit. To mention three examples in the Punjab the volume of production through the co-operative effort is described as most gratifying and the manufacture of cutlery in this area has reached eloquent figures. In the North-West Frontier Province, large numbers of blankets, footwear and timber articles are produced for war supplies through the Provincial Co-operative Department. In the U.P., the co-operative scheme has diverted a large number of orders from other agencies to the small-scale industry and the same is true of other Provinces. The U. P. Government has placed Rs 12 lakhs at the disposal of the Registrar of Co-operative Societies as interest-free loan.

On the textile side, handloom weavers, accustomed to patterns of multi-coloured hue plying their shuttles according to age-long custom, now weave the utility 'dosuti' or double yarn used for making tents or bandage cloth, gauze cloth, muzri buntings, and various woollen fabrics. Further, thousands of camouflage nets made of hemp are being produced in villages and, in 1941-42, these orders amounted to Rs 182 lakhs. It is estimated that they will reach Rs. 5 crores mark this year. Like camouflage nets, pith hats are being manufactured in rural India on a large scale. Last year, their value amounted to Rs 43 lakhs.

Most canned foodstuffs still have to be imported but progress has been made with the production of jams and marmalade, golden syrup, canned tomatoes, and dried vegetables, the process for the last having been developed by an Indian research worker. The scarcity of tinplate has necessitated the development of alternative types of foodstuffs. Tinned fruits and vegetables are being replaced by dehydrated material, thus saving considerable bulk and weight in transport. Dried fruit is being compressed and wrapped in wax paper, thus effecting an economy in packing material. To save space, dried vegetables are compressed in block form each individual briquette forming the ration of one man. The vitamin-rich dried amla has been incorporated into soft centred sweets and the objectionable flavour of this material entirely overcome. Development in the production of dried fish, dried meat and dried eggs is being carried out. To conserve shipping space, American tobacco used for cigarettes, is being reduced to one half. To facilitate supplies and distribution of condiments a mixture consisting of the required ingredients in the desired ratio is now being supplied.

Considerable success has been achieved in expanding industries connected with the manufacture of brushware, enamelware, crockery, cutlery, paper, cardboard products, glass and glass-ware. As part of their war effort, the various Provincial Governments have also established production, on the cottage industry basis, of a number of items such as ambulance stretchers, horn and bone buttons, hair combs, etc.

Although much has been done to encourage the output by small-scale industries, we feel that there is still vast scope in this direction. Considering the vastness of the country and the total number of villages, the potentialities of village industries are great and, if properly

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harnessed, as is being now done, they will prove to be of immense benefit to the poor villager not only during war-time but also during the post-war period

#### NEW INDUSTRIAL ENTERPRISES.

Details of the new industrial resources developed since the outbreak of war are not available. But there have been expansions in kind and quantity of many things being made in India now, which were not made at all before the war. Some of these things are military specialities, military lorry bodies, bodies for armoured fighting vehicles, minesweeping trawlers, new types of weapons and ammunition and various items of other equipments. The use of plastics has been developed, and the technique of die-casting has been improved. Machine tools are being made not only in larger quantities, but in better qualities. Improvements have also been effected in chemical and pharmaceutical industries. An aircraft factory has been set up, and several schemes for the repair and maintenance of aircraft are in hand. The first production of aluminium in India has taken shape. Capacity for the filature reeling silk is doubled, very considerable expansion of tyre production is in hand, rubber reclaim plants are established, new chemical plants are coming into production and further development is contemplated for basic chemicals and power alcohol.

#### LABOUR PROBLEM

A landmark in the history of Government's policy and attitude towards the labour problem in India, emerged out of the inauguration of the Tripartite Labour Conference "a miniature Geneva," initiated by the Government of India in 1942. One of the steps adopted as a result of the deliberation of this conference is to ensure food supplies at cheap rates to labourers in these hard times and the periodical increases in dearness allowances to set off the rise in their cost of living. Labour welfare is receiving prominent attention at the hands of the Labour Department advised by a Labour Welfare Adviser. Sickness Insurance legislation for the working-class people is on the tapis, while the benefits under Workmen's Compensation and War Injuries Relief Schemes have been liberalised and broadened.

#### INDO-CHINA TREATY

A most noteworthy feature of the year is the treaty concluded between His Majesty, in respect of the United Kingdom and India, and the President of the National Government of the Republic of China concerning the relinquishment of extra-territorial rights in China—and the regulation of related matters. The Treaty was signed at Chungking on January 11th, 1943.

#### PROTECTIVE MEASURES

As a step towards the cause of industrialisation, the Government have retained the continuation of protective duties on imports of iron and steel, sugar, silver, thread, wire, wood-pulp, paper, cotton and silk manufactures, glass, wheat, wheatflour, and brought into force Trade Marks Law, and, latterly, effected the appointment of three industrial Advisory Panels to be located in Bombay, Calcutta and Madras. These consist of representatives from trade and industry. The function of the Panels is to advise the Government on industrial expansion. The Government would place before these panels its possible requirements of future demands and the panels, in their turn, will be called upon to tender advice as to which of the existing plants can be erected and

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which firms are interested in taking up new projects. On receiving this information, the Government is to negotiate with the firms concerned. The industry concerned would be putting up the capital, while the Government would assist in the importation of plants from abroad, and as regards priorities and shipping, etc. Mr J N Lahiri, Dr John Mathai and Mr Davies are reported to have been appointed Chairmen for Calcutta, Bombay and Madras respectively.

#### FOOD PROBLEM.

In view of the fact that the problems connected with the production and distribution of food within the country have been growing in complexity and number from day to day, the Governor-General-in-Council formed a Department of Food by an announcement on 8th December, 1942. The new Department has since then been functioning and has taken over the administration of all measures of control over prices and supply and distribution of food-stuff, which were hitherto the concern of the Commerce Department. It also took over the procurement and purchase of army food requirements which were formerly dealt with in the Department of Supply. The functions previously performed by the Civil Supplies Commissioner (Rice and Miscellaneous) and Sugar Controller and the Wheat Commissioner have ceased to exist, and the Central Food Advisory Council, which had hitherto been attached to the Department of Education, Health and Lands, has also been transferred to the Department of Food.

Recently several posts of Regional Food Commissioners have been created for the better co-ordination and control of food supplies all over India, including the Indian States. The Regional Commissioners will operate in 5 or 6 regions for India. These Commissioners will each have to deal with a number of Provinces and States.

#### FOREIGN TRADE DURING APRIL TO DECEMBER, 1942

From April to December, 1942, (nine months), India's total exports stood at Rs 150.35 crores, and imports at Rs 82.79 crores as against Rs 188.84 crores and Rs 142.31 crores, respectively during the corresponding period of the previous year. The favourable balance of trade during these nine months amounted to Rs 67.56 crores as against Rs 46.53 crores for the corresponding period of 1941.

##### Imports

As regards imports of individual items, it will be seen that during these nine months, the value of imports of grain, pulse, etc., stood at 2.71 crores, and oilman stores as well as spices came down to Rs 92 lakhs and Rs 1.36 crores respectively. The imports of tobacco have amounted to 1.58 crores and that of mineral oils to Rs 23.77 crores. The imports of raw cotton have declined to Rs 11.17 crores from Rs 15.46 crores in 1941. The imports of raw wool, however, have expanded from Rs 60 lakhs in 1939 to Rs 253 lakhs in 1942. Besides these, the imports of wood and timber are valued at Rs 54 lakhs, drugs and medicines at Rs 5.73 crores, dyes and colours at Rs 5.92 crores, electrical goods at Rs 1.58 crores, machinery and mill work at Rs 13.58 crores, metals at Rs 3.40 crores and paper at Rs 2.5 crores. During these nine months the value of import of textile manufactures has amounted to only Rs 3.71 crores.

##### Exports

During the period under review the value of the exports of cotton manufactures from India aggregated to Rs 48.50 crores. Jute manu-

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factures came next with Rs 42.11 crores as compared with Rs 40.39 crores during the corresponding period of the previous year. The exports of raw jutes were valued at Rs 10.43 crores while hides and skins, raw and tanned, aggregated to Rs 9.07 crores. The exports of grains and raw cotton recorded a value of Rs 8.23 crores and Rs 7.42 crores respectively. Exports of gums (resin and lac), and metallic ores, mostly consisting of manganese and mica, were higher at Rs 4.32 crores and Rs 2.56 crores. The exports of Indian spices and coal amounted to Rs 1.87 crores and 42 lakhs respectively.

### EXPORT LICENSING

Some important modifications have recently been made by the Government of India, Department of Supply, regarding the procedure to obtain licences for the export of certain specified articles from this country.

According to the notification now issued by the Government, four different officers have been empowered to issue licences for export of goods, coming under the purview of the Supply Department, each having a specific number of items. Thus the Director-General of Supply, New Delhi, is assigned the power to issue licences regarding bitumen, all sorts of buttons, cement, chemical and chemical preparations, cork and cork manufactures, glass sheet, graphite, gums and resins, textiles, wood and timber, etc. The Director-General, Munitions Production, Calcutta, has the power to issue licences for the export of belting for machinery, electric goods and lamps, including gas lamps, etc., machinery and mill work, machine tools, metals and ores, and manufactured articles, made wholly or mainly of any specified metals or alloys, etc. Aircraft and parts and special aircraft materials are not to be exported without obtaining licences from the Director of Civil Aviation, New Delhi. Another officer who is given the power to issue licences in the Supply Department is the Director-General, Indian Medical Services, New Delhi. He grants licences in respect of drugs and medicines, any medicinal preparation containing any one or more of the specified drugs or medicines, sera, medical instruments, such as microscopes, surgical and veterinary instruments, etc.

### IMPORT LICENSING

The open General Licences covering imports from certain Empire countries, Fighting French territories and certain other areas has been withdrawn from March 1, 1943. Any goods despatched on through consignment to India from those areas on or after that date must be covered by individual licences obtainable from the various licensing authorities. Imports from Ceylon will, however, remain unaffected by this decision.

### CENTRAL BUDGET.

Introducing the Central Budget for 1943-44 in the Central Assembly on 27th February, 1943, Sir Jeremy Raisman, the Finance Member, disclosed a revenue deficit of Rs 94.66 crores for the current year and a prospective deficit on the basis of existing taxation, of Rs 60.28 crores next year.

The revised estimate of the Defence expenditure in the current year, on revenue account is placed at Rs 189.75 crores and in 1943-44 at Rs 182.81 crores. Defence capital expenditure in the current year is Rs 49.14 crores and next year Rs 16.85 crores. Capital expenditure is on account of aerodromes, industrial expansion, reciprocal aid, new

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construction for R.I.N. and telecommunications scheme His Majesty's Government, the Finance Member revealed, does not intend to pursue the proposal to modify the character of the present financial settlement.

#### REVISED ESTIMATES 1942-43.

Revenue is estimated to show an improvement of Rs 26 76 lakhs, while expenditure is expected to increase by Rs 86,35 lakhs, chiefly on account of Defence expenditure Deficit in the current year is expected to increase from Rs 35,07 lakhs to Rs 94,66 lakhs Mainly due to the war in the Pacific a shrinkage of Rs 4,35 lakhs in customs revenue is expected which is more than offset by Rs 14 crores improvement under taxes on income and Rs. 1½ crores under salt Provincial share of divisible pool of income-tax will be approximately Rs 10 55 crores, excluding arrears

Surplus profits of the Reserve Bank paid over to Government have amounted to Rs 3,24 lakhs, as compared with Rs 2,62 lakhs originally estimated The Posts and Telegraphs Department is expected to add Rs 1,35 lakhs more in the current year, while Railway contribution to general revenues remains unaltered at Rs 20,13 lakhs

The Details of revised estimate of Defence expenditure for 1942-43, amounting to Rs 189,75 lakhs, are as follows —

#### Revenue portion.

	Lakhs of Rs
(1) Basic normal budget	36,77
(2) Effect of rise in prices on (1)	8,61
(3) India's war measures	135,96
(4) Non-effective charges	8,41
	<hr/>
	Rs 189,75

#### Capital portion.

(1) All Forces, aerodromes	18,37
(2) Capital outlay on industrial expansion	12,00
(3) Reciprocal aid—aerodromes	12,75
(4) New construction for the R I N	4,72
(5) Capital outlay on telecommunications scheme	1,30
	<hr/>
	Rs. 49,14

It became clear in the current year that substantial increases in the three arms of the Defence Services beyond those envisaged in the last budget speech were called for to protect India against fresh dangers to which the course of war had exposed her By the middle of the year recruits at the rate of about 70,000 per month were enlisted For equipping additional troops India is obtaining her full share of the greatly increased production of the United Nations The land forces in India during 1943-44 are expected to reach a stage of reasonable adequacy to meet all likely demands for the defence of India.

#### Financial Settlement with the U. K.

The existing financial settlement which has worked very well in an atmosphere of mutual cordiality and trust were concluded at a time when no major expansions in land, sea and air forces or our supply activities were in sight Measures of expansion were then inaugurated and it soon became obvious that all expansions in the land forces in India must be considered as one joint war measure and that the cost thereof should be divided as follows

(a) India should pay for the raising, training and equipping from Indian resources of all land forces raised in India, for their maintenance

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as long as they stayed in the country and were available for the local defence of India. When they left for overseas the cost to India of raising and training them and also of equipping them would be recovered from His Majesty's Government who would assume all further liability for them.

(b) All imported equipment and stores for such expansion measures of the land forces from whatever source (with a few exceptions) would be provided free by His Majesty's Government.

The allocation of the cost of expansion of the R.I.N. raised no special problem. As regards the Air Forces in India, the cost of major expansion, like that of the land forces, was a joint war measure. The incidence of expenditure on two kinds of activities called for special attention in this connection, viz., expansion of the Supply Department's activities and reciprocal Lease-Lend aid to American forces in India. Capital expenditure was being incurred by His Majesty's Government under the former, while a good deal of the industrial development taking place under the expansion schemes would be to the permanent advantage of India. It was to mutual interest of both parties that the allocation of capital expenditure on supply measures should be reviewed.

The Finance Member proceeded to England to discuss these and other major aspects of the financial settlement. While His Majesty's Government pressed for a revision, the Government of India's contention was that the present settlement should not be abandoned. Sir Jeremy Raisman announced that "the Government of India have been informed that His Majesty's Government do not intend to pursue the proposal to modify the character of the present, financial settlement. The settlement therefore stands."

As regards allocation of cost of Air Force expansion, India's liability will relate only to the amount of expenditure actually brought to account by India, viz., the capital outlay incurred in India on the provision of airfields and other ground and operational facilities and the recurring costs of the squadrons and connected services while employed in India. As regards supply measures it is proposed that India should provide one-half of the capital required and own all the assets already created or to be created.

#### **Reciprocal Lease-Lend**

In the matter of Reciprocal Lease-Lend aid to America, the Finance Member stated, the possibility of entering into a direct Mutual Aid Agreement with the United States of America is at present being considered. In the meantime Reciprocal Lease-Lend has been shown in the Defence estimates as a charge to Indian revenues. At the same time credit has been taken in the same estimates for all receipts from the sale of Lease-Lend supplies to the public, Provincial Governments, Railways and Government Departments run on commercial or quasi-commercial lines. Accurate assessment of the cost of Reciprocal aid to the United States of America forces in India is not possible, the total expenditure under this head has been shown as Rs. 16.70 crores in 1942-43 and Rs. 8.04 crores in 1943-44.

#### **Civil Expenditure.**

Neglecting certain accounting adjustments on account of premia on war risks insurance funds, civil expenditure in the current year has increased by Rs. 14½ crores. This is attributable in the main to causes connected with the war. An important aspect of this, is the grant of increased dearness allowances to Central Government employees, this is estimated to amount to Rs. 170 lakhs in a full year (excluding Posts

and Telegraphs, Railways and Defence Services)' Measures connected with helping evacuees are expected to cost Rs 100 lakhs The abnormal conditions created in the civil life of the country since August last have rendered it necessary to help the Provinces to strengthen their police forces at an estimated cost of Rs. 100 lakhs The Supply Department has continued to expand The value of contracts placed by its Purchase Branch from the outbreak of war up to 31st December, 1942 amounted to Rs 454.5 crores

Total revenue estimates for 1943-44 amount to Rs 199.30 crores as compared with Rs 178.76 crores in the revised estimates for the current year Customs are expected to yield Rs 30 crores as against Rs 31 crores in the current year An increase of Rs 84 lakhs is expected under Central excise duties, chiefly on account of sugar. The yield under corporation tax and other taxes on income, including EPT is expected to be better by Rs 17 crores, taking into account the trend of recent collections EPT alone is expected to yield Rs. 40 crores Rs 27.10 crores are allowed as contribution from the Railway to the general revenues The Provincial share of the divisible pool of income-tax is estimated to touch the record figure of Rs 12.10 crores

#### Defence Expenditure

The budget estimates of Defence expenditure for 1943-44 amount to Rs. 182.81 crores under revenue and Rs. 16.85 crores under capital, details being as under —

##### Revenue portion.

	Crores of Rs
(1) Basic normal budget	36.77
(2) Effect of rise in prices	10.62
(3) India's war measures	127.01
(4) Non-effective charges	8.41

- Rs 182.81

##### Capital portion.

(1) Air Force—Aerodromes	2.52
(2) Capital outlay on industrial expansion	4.00
(3) Reciprocal Aid—aerodromes	2.85
(4) New construction for RIN	3.28
(5) Capital outlay on telecommunications scheme	4.20

Rs 16.85

For the first time since the war began, the estimates envisage a decrease in the Defence budget, as compared with the revised, so far as expenditure charged to revenue is concerned Referring to this phenomenon, the Finance Member stated "Although it would be unsafe to conclude from this that India has now reached the peak of her own war expenditure, it is legitimate to hope that the stage of heavy addition is past"

#### Estimates for 1943-44.

Civil expenditure estimates for 1943-44 also show a reduction of Rs 7 crores as compared with the revised estimates for the current year Of this, about Rs 4½ crores are accounted for by smaller receipts from the Factories War Risks Insurance Scheme which figure as expenditure on transfer to the relevant fund A reduction of Rs 2½ crores is anticipated in civil defence expenditure There is a slight increase under interest which is explained by increased interest charges payable on loans raised in 1942-43 and proposed to be raised in 1943-44

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### Financial Measures for Tackling Food Problem.

It is conjectured that the scale of purchases of food grains by the Food Department in 1943-44 will be Rs 75 crores. This will be financed by the Central Government in the first instance and later recovered from Provincial Governments on whose behalf purchases are made.

"The Government of India are determined to spare no effort to increase the production of essential food commodities and are anxious that at this stage no scheme which affords promise of making an early and substantial contribution to this end should be excluded from consideration on purely financial grounds," stated the Finance Member. "Pending a decision on the specific measures to be taken, we have provided in the budget a round sum of Rs 50 lakhs, but we would not limit our expenditure to that figure if further outlay were to offer a greatly enhanced prospect of achieving our object."

### The Financial Position.

The financial position for the coming year can be summarised as follows —

	In crores of Rs
Civil estimates	76 78
Defence services	182 81
<b>Total expenditure estimate</b>	<b>259 59</b>
<b>Total revenue at the existing level of sanction</b>	<b>199 30</b>
<b>Prospective deficit</b>	<b>60 29</b>

### Ways and Means

Dealing with the Ways and Means position, the Finance Member stated that total borrowings in the seven months July 1942 to January, 1943, averaged Rs 19 crores a month. Subscriptions to the Defence Loans from 1st February, 1942, to 31st January, 1943 amounted to Rs 34½ crores, raising the total proceeds to Rs 145 crores since the Defence Loans were first issued in June, 1940. In addition, there was a steady investment of new money in the rupee counterparts of the repatriated sterling loans. Total investments in Defence Loans, counterparts and certain provincial loans (raised to repay a part of debt due to the Centre) aggregated to Rs 93 crores over the twelve months and Rs 267½ crores since the beginning of the war.

### Sterling Debt Repatriation

The necessary sterling required to repatriate the 2½ per cent and 3 per cent undated sterling loans was provided with ease by the Reserve Bank. No counterparts were created this time and the entire rupee finance was raised in the first instance by means of *ad hoc* Treasury Bills issued in favour of the Reserve Bank. Subsequently stray lots of the vested stocks as well as the market purchases of 3½ per cent stock were financed from balances. For the last and final stage of redeeming £58½ million of the 3½ per cent stock the rupee finance was again in the form of *ad hoc* Treasury Bills. "That some £300 million of sterling debt should have been repatriated since the outbreak of the war with so little disturbance to the money market," observed the Finance Member, "is a consummation for which the country may well feel gratified." The balance of sterling stock, not yet redeemed as falling beyond the scope of the vesting orders, amounted to £13 million.

After referring to the funding of the Railway Annuities by the payment of a lump sum of £30 million to His Majesty's Government, the vesting of railway debenture stocks of the face value of £20 million and

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the giving of one year's notice for the redemption of three other such stocks, the Finance Member observed "And thus India has completed the transition from a debtor to a creditor country and extinguished within the brief space of about three years accumulation over decades of its public indebtedness to the United Kingdom"

Of the Rs 400 crores raised so far for financing the various repatriation and funding operation, only Rs 160 crores may be regarded as being still in the form of Central Bank finance

#### Utilisation of Sterling Balances.

The future utilisation of sterling balances has engaged the continuous attention of the Government of India. With the virtual cessation of payments on interest account to external bond holders, which has resulted from the operation of the sterling debt repatriation schemes the only substantial liability still remaining on account of which sterling remittances would normally be necessary will be payments on account of sterling pensions, family pensions and provident funds. It is estimated that these charges in the period that lies ahead will be from £5 to 6 million a year. In this connection he revealed that the Government of India had accordingly under consideration a scheme for making advance provision for the requisite sterling remittance wherewith to meet future payments in respect of these liabilities on the lines of the arrangements recently made for sterling railway annuities. It is not contemplated, that the rights of any class of Government servants would be affected or that the liability to pensioners should be transferred from the Government of India.

#### Post-war Reconstruction Fund.

The Government of India are also considering a proposal that something in the nature of a Reconstruction Fund should be constituted to provide for the financing of a programme of post-war reconstruction, including the rehabilitation and re-equipment of industry. In the post-war period India will have heavy demands for imported machinery and plant to equip her greatly expanded industrial system and it will be necessary to proceed on some orderly programme of purchases from overseas. The existence of a Reconstruction Fund with a concerted programme of requirements would enable India to go ahead with post-war reconstruction with minimum delay.

#### Proposed Taxations.

The Budget speech of the Finance Member envisages an increase in Central surcharge on all incomes above Rs 5,000. Incomes from Rs 5,000 upto Rs 10,000 will have to pay a surcharge of 10 pies in the rupee instead of 9 pies as now, those from Rs 10,00 upto Rs 15,000 will have to pay 16 pies instead of 14 pies and those above Rs. 15,000 will have to pay 20 pies instead of 15 pies. The rate of Central surcharge on individual incomes will thus be the same as that of Excess Profits Tax or Corporation profits.

There will also be a uniform increase in scale of super tax on the slabs of income between Rs 25,000 and Rs 3 lakhs by half an anna in the rupee. Together with the surcharge, the incidence will amount to two annas in the rupee on the lowest slab and As 10½ on the top slab.

The Corporation tax is to be raised by half an anna, that is from 1½ annas to two annas in the rupee, but surcharge on Corporation tax as such has ceased.

Excess Profits Tax is continued with no change in the rate.

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The indirect taxes proposed in the Budget include a continuation, for a further period of one year, of the levy of the emergency surcharge of 20 per cent on import duties, an Excise duty on all tobacco produced or manufactured in India, except that grown for the personal consumption of the grower or the members of his household, an Excise duty on vegetable product or Vanaspathi, and certain increase in postal and telephone rates. The last include an increase in the inland letter rate for each tola after the first from half an anna to one anna, an increase in the inland parcel rate for the first 40 tolas from As 4 to As 6, and an increase of 100 per cent in the existing surcharge on telephone rentals.

### RAILWAY BUDGET.

In presenting the Railway Budget, Sir Edward Benthall, War Transport Member, in the Legislative Assembly on 15th February, 1943, forecast for 1942-43 a surplus of Rs 36 28 crores (Rs 8 20 crores more than the last year and Rs 8 33 crores more than the original estimate) and for 1943 44 a surplus of Rs 36 04 crores.

In 1942-43, total traffic receipts are expected to be Rs 149½ crores (Rs 144 crores from State-owned lines and Rs 5½ crores from worked lines), i.e., Rs 14 crores more than last year and Rs 19 crores more than the original estimate. Total working expenses, including Rs 12 58 crores for depreciation and Rs 2 67 crores for payment to worked lines, are Rs 86 52 crores, and exceed last year's expenses by Rs 7 crores. Of the expected surplus of Rs 36 28 crores, general revenues will receive the originally budgeted amount of Rs 20 13 crores, which is Rs 2 36 crores over and above the current and arrear contributions actually due from railways under the existing convention and the Railway Depreciation Fund will receive Rs 16 08 crores, the balance of Rs 7 lakhs going to Railway Reserve. The Depreciation Fund will also receive Rs 6 30 crores by transfer from the Railway Reserve and the railways' debt to the Depreciation Fund will thereby be wiped out. The balance in the fund will be Rs 82 19 crores. The balance in the railway reserve will be about Rs 56 lakhs.

No change in fares and freights is contemplated in 1943 44, and the budget estimate assumes traffic receipts of Rs 150 crores, Rs 75 lakhs more than the current year. Total working expenses, including depreciation and payment to worked lines, are estimated at Rs 88 14 crores, Rs 1 62 crores more than the current year. Of the surplus of Rs 36 04 crores, to which strategic lines contribute Rs 29 lakhs, Rs 27 10 crores will go to general revenues and Rs 8 94 crores to railway reserve. At the end of the year there will be a balance of Rs 84 crores in depreciation fund and Rs 9½ crores in railway reserve.

Against a works programme of about Rs 26½ crores including Rs 4½ crores for the balance of the purchase price of the Bengal and North Western and Rohilkund and Kumaon Railways, there is a provision of Rs 24 crores (Rs 13 crores from capital and Rs 11 crores from depreciation fund), more than half of which is for locomotives, and wagons.

By the end of the current year, the railways hope to pay off completely the debt both to general revenues and to the depreciation fund.

### SEPARATION CONVENTION.

In the division of the next year's surplus two conflicting interests have to be considered, viz., the provision of adequate funds to cover

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post-war rehabilitation and to meet interest charges in periods of trade depression on the one hand, and the plight of the general taxpayer on the other. According to Sir Edward Benthall, in peace-time the Convention had brought the railway finances into a most perilous position from which they had been rescued for the present by the abnormal conditions of the world war. The Convention had equally failed in war-time since it gave inadequate relief to the general taxpayer and it had been necessary to introduce a moratorium from time to time in order to secure to general revenues an increased share of the surplus.

The Government has, therefore, decided, to abandon so much of the existing Separation Convention as provides for contribution and allocation of the surplus to general revenues and to distribute the surplus expected from commercial lines in 1943-44 between general revenues and railways in the proportion of 3 to 1. Till a new convention is adopted, the distribution of each year's surplus will be decided 'ad hoc' fresh settlement, were a reasonable mean between the claims of railways. A resolution seeking the approval of the Assembly to this arrangement will be moved later during the session. Sir Edward considered that these proposals, which were an initial step towards a fresh settlement, were a reasonable mean between the claims of railways and general finance. He said that, in the opinion of the Railway Department, from a financial point of view it would be thoroughly unsound to allocate such a large percentage of railway surplus to general revenues unless railways were relieved of the burden of a fixed annual contribution, regardless of whether a surplus is actually earned or not, and that the canons of sound railway finance dictated that, apart from contribution to the depreciation fund at least Rs 8 crores per annum should be set aside annually to railway reserve. The new proposals provided a flexible arrangement which, while relieving the railways of the necessity of making heavy provision out of surplus of prosperous times to meet future fixed contribution to general revenues, will enable them to make some substantial provision to meet post-war contingencies and at the same time make large contributions when most needed to general revenues for the benefit of the taxpayer.

#### WAGONS & LOCOMOTIVES.

Stating the position of wagons and locomotives during the year just closing the War Transport Member said "So far, we have placed orders for 9,973 broad-gauge wagons, of which we have received 265 and expect to receive about 6,207 by the end of 1943-44. Of meter-gauge wagons we have ordered 736, all of which we expect to get. Pressure has been maintained on Governments of United Kingdom and United States for supply of broad-gauge locomotives and although some of the outstanding orders on England have now been made for supply of 40 heavy goods engines from America deliveries of these are expected to commence in June, 1943. Indian railways are also to receive 12 metre-gauge heavy goods engines from England and 80 from America. It is hoped that 40 heavy goods engines for broad-gauge will be followed by 145 more goods engines, but the date, when these may be expected has yet to be settled. It has been requested that arrangements be made for supply of further 150 broad-gauge locomotives during 1944. The House will be interested to know that plans are already actively being prepared to set up a locomotive construction shop in India during the war, if physically possible, although this is unlikely owing to difficulty of securing plant and raw material, and if not, as a part of the immediate post-war reconstruction plan."

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# BANKING DEVELOPMENT IN INDIA

**G**ROWTH of banking institutions is a close barometer of the economic prosperity of a country. Industry, commerce as well as agriculture can only develop with banking progress and proper mobilisation of the monetary sources of the country. But unfortunately the financial sources and facilities in India are woefully deficient considering the enormous need of circulating capital in our midst at present. The recently constituted Reserve Bank of India supplies a new orientation to the banking policy of India. The natural lack of banking habit among the people combined with the absence of mutual confidence, is directly responsible for the undeveloped nature of banking business in India. Banking is founded chiefly on confidence and unless every form of distrust is dispelled and conservative habits are destroyed no material development is possible.

The development of banking in India on European lines began only a century and a half ago. Though the progress is slow, it cannot be denied that India has made considerable stride in banking matters during the last 60 years, especially during the first quarter of the present century. The total number of offices of the Scheduled Banks and non-Scheduled Banks steadily increased and aggregated 2,171 at the end of 1941, distributed as follows —

	1939	1940	1941
Imperial Bank of India — — —	381	390	401
Exchange Banks — — —	99	101	99
Other Scheduled Banks — — —	798	860	954
Non scheduled Banks having capital & reserves of over Rs 1 lakh — —	477	572	717
<b>TOTAL — — —</b>	<b>1,755</b>	<b>1,923</b>	<b>2,171</b>

## CLASSIFICATION OF BANKS IN INDIA.

The Indian banks fall under four categories (1) The Reserve Bank of India, which is the Central Bank of the country, (2) the Scheduled Banks and the Burma Scheduled Banks comprising (a) the Imperial Bank of India which is the largest joint stock bank in India, (b) the Exchange Banks whose head offices are located outside India or Burma, and (c) other Scheduled and Burma Scheduled Banks or Joint Stock Banks registered under the Indian Companies Act in British India and under similar laws relating to registration of companies in certain Indian States and Burma and included in the Second Schedule to the Reserve Bank Act or the Second Schedule to the India and Burma (Burma Monetary Arrangements) Order, (3) Non-Scheduled banks or India and Burma joint stock banks other than those included in the second schedule to the Act and the Order, and (4) the Co-operative Banks, in British India, Burma and in certain Indian States registered under the respective laws relating to co-operative societies in force in them.

## RESERVE BANK OF INDIA.

At the head of the banking system in India ranks the Reserve Bank of India, the absence of which had been one of the weakest

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features of India's economic development and organisation. It was constituted under the Reserve Bank of India Act. The Bank has a paid-up capital of Rs 5 crores and a reserve fund of Rs 5 crores. It has got both an issue and a banking department. It is responsible for the maintenance of the currency, for the investment of the currency reserves in rupees and sterling and for supplying the Secretary of State with sterling for his London requirement. It is the repository of Government balances and attracts large deposits from scheduled banks. The main functions of the bank are enumerated in the constitution of the Bank, popularly known as the Reserve Bank of India Act.

The Bank has the sole right to issue bank notes in British India. The issue of bank notes is conducted by the Bank in an Issue Department which is separated and kept wholly distinct from the Banking Department, and the assets of the Issue Department are not subject to any liability other than the liabilities of the Issue Department.

According to the agreement between the Secretary of State and the Reserve Bank, the former employs the bank as the sole banker in India of the Governor-General-in-Council, who deposits or causes to be deposited with the bank or allows the bank to receive and hold as banker the whole of his cash balances at any places at which for the time being the bank shall have an office. The bank shall make moneys at the said offices, branches and agencies available for transfer to such places and at such times as the Governor-General-in-Council may direct. No interest shall be payable to the Governor-General-in-Council on any of the moneys for the time being held by the bank.

Financial position of the Bank as on the 2nd January, 1942 and 1st January 1943, is given below —

Issue Department		Jan 2, 1942	Jan 1, 1943
		(in lakhs of Rs )	
Liabilities			
Notes held in the Banking Department		14,67 48	13,52 34
Notes in circulation —			
(a) Legal Tender in India		321,08 96	578,24 99
(b) Legal Tender in Burma only		21,35 75	—
	TOTAL Rs	357,12 19	591,77 33
Assets			
A Gold Coin and Bullion—			
(a) Held in India		44,41 43	44,41 43
(b) Held out side India		—	—
Sterling Securities		237,62 61	412,83 39
	TOTAL Rs	282,04 04	457,24 82
B Rupee Coin		33,57 89	12,16 79
Government of India Rupee Securities		41,50 26	122,53 72
Internal Bills of Exchange and other			
Commercial paper		—	—
	TOTAL Rs	357,12 19	591,77 33
Ratio of Total of A to Liabilities		78 976	77 267

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Banking Department.		
	Jan 2, 1942	Jan 1, 1943
Liabilities	(in lakhs of Rs.)	
Capital Paid up	5,00 00	5,00 00
Reserve Fund	5,00 00	5,00 00
Deposits —		
(a) Government —		
(1) Central Government of India	15,63 28	14,07 05
(2) Government of Burma	3,47 68	1,78 26
(3) Other Government Accounts	4,66 31	7,06 89
(b) Banks	33,94 97	47,49 17
(c) Others	4,26 37	4,46 24
Bills Payable	1,17 16	1,96 69
Other Liabilities	4,69 04	4,42 17
<b>TOTAL Rs</b>	<b>77,84 81</b>	<b>91,26 47</b>
Assets		
Notes—		
(a) Legal Tender in India	14,39 11	13,52 34
(b) Legal Tender in Burma only	28 37	—
Rupee Coin	11 78	11 18
Subsidiary Coin	5 33	3 55
Bills Purchased and Discounted —		
(a) Internal	—	—
(b) External	—	—
(c) Government Treasury Bills	—	1,96 18
Balances held abroad*	51,58 97	66,61 15
Loans and Advances to Governments	—	66 00
Other Loans and Advances	35 00	2 00
Investments	9,22 85	5,98 54
Other Assets	1,83 40	2,35 53
<b>TOTAL Rs</b>	<b>77,84 81</b>	<b>91,26 47</b>

\* Includes Cash and Short-term Securities

#### IMPERIAL BANK OF INDIA.

The Imperial Bank of India was established in 1921 under the Imperial Bank of India Act of 1920 by amalgamation of the three Presidency Banks, the Banks of Bengal, Bombay and Madras. It is a commercial bank with private shareholders with an authorised capital of Rs 11½ crores of which half is paid up. It inherited from its three predecessors certain functions as banker's bank, which together with its increased responsibilities as Government bankers, accounted for some of the restrictions imposed on its business activities by its charter of 1920 and for the control exercised by the Government over the Bank. Due to the enactment of the Reserve Bank of India Act and the Imperial Bank Amendment Act of 1934, the Imperial Bank has been divested of its central banking functions and has been released from Government influence. The agreement between the Reserve Bank of India and the Imperial Bank of India came into force on April 1, 1935, and remains in force for the term of 15 years and thereafter until terminated after 5 years' notice on either side. The following are the provisions—The Bank is free to open branches anywhere outside India, including London. It has greater freedom in internal business and it can do foreign exchange business and open cash credits, receive deposits and borrow money outside India. It ceases to be banker to the Government but shall act as the sole agent of the Reserve Bank.

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in places where there is a branch of Imperial Bank, and no branches of the Banking Department of the Reserve Bank shall be opened at these places until expiry of 15 years

With the exception of functions relating to the management of the Public Debt Department, the Reserve Bank shall pay to the Imperial Banks as remuneration a sum which shall be, for the first ten years during which this agreement is in force, a commission calculated at one-sixteenth of one per cent on the first 250 crores and one-thirty-second of one per cent on the remainder of the total of the receipts and disbursements dealt with annually on account of Government by the Imperial Bank on behalf of the Reserve Bank

At the close of the said ten years the remuneration to be paid by the Reserve Bank to the Imperial Bank for the performance of these functions shall be revised and the remuneration for the ensuing five years shall be determined on the basis of the actual cost to the Imperial Bank, as ascertained by expert accounting investigation of performing the said functions. The remuneration so determined shall thereafter be subject to revision in like manner at the end of each period of five years so long as this agreement remains in force. The amount of the said remuneration shall be arrived at by discussion in advance between the Reserve Bank and the Imperial Bank, so that the new arrangements may come into force at the beginning of each such period

#### Capital, Reserves, Deposits, & Cash Balances

The table below summarises the capital, reserves, deposits and cash balances of the three Presidency Banks regarded as one Bank up to year 1920 and of the Imperial Bank of India from 1921 —

	Capital	Reserve	Public Deposits (in lakhs of rupees)	Private Deposits	Total Deposits	Cash Balances
1918	3,75	3,73	5,89	36,48	42,37	15,38
1919	3,75	3,58	7,72	68,21	76,04	23,63
1920	3,75	3,78	9,03	78,01	87,04	26,03
1921	5,62	4,14	6,80	65,78	72,58	13,60
1922	5,62	4,33	14,16	57,01	71,16	15,07
1923	5,62	4,55	8,57	74,20	82,76	15,01
1924	5,62	4,80	7,50	76,71	84,21	15,60
1925	5,62	4,92	5,46	77,83	83,30	17,47
1926	5,62	5,09	6,45	73,90	80,35	20,90
1927	5,62	5,24	7,20	72,07	79,27	10,89
1928	5,62	5,39	7,95	71,30	79,25	10,58
1929	5,62	5,48	7,60	71,64	79,24	14,00
1930	5,62	5,53	7,37	76,60	83,97	13,04
1931	5,62	5,14	8,32	63,86	72,18	11,04
1932	5,62	5,43	7,07	68,36	75,43	20,97
1933	5,62	5,49	6,44	74,13	80,57	18,60
1934	5,62	5,66	6,72	74,28	81,10	18,97
1935	5,63	5,76	—	79,10	79,10	19,59
1936	5,63	5,78	—	78,80	78,80	8,56
1937	5,63	5,80	—	81,08	81,08	13,56
1938	5,63	5,55	—	81,51	81,51	8,99
1939	5,63,	5,60	—	87,84	87,84	11,09
1940	5,63,	5,62	—	96,03	96,03	24,83
1941	5,63	5,62	—	1,08,92	1,08,92	15,27
1942	5,63	5,70	—	1,59,44	1,59,44	20,96

The Balance Sheet of the Imperial Bank follows—

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	As at 31-12-1939	As at 31-12-1940	As at 31-12-1941	As at 31-12-1942
	(in lakhs of rupees)			
Capital	5,62 50	5,62 50	5,62 50	5,62 50
Reserve fund	5,55 00	5,60,00	5,62 50	5,62 50
Deposits	81,50 96	87,84 16	108,91,90	159,44,16
Advances	38,30 31	48,27 70	38,88 28	32,63 99
Fixed Asset	1,89 51	1,85 97	1,78 27	
Investments	43,73 53	38,03 51	64,39 65	115,86 34
Cash	8,98 99	11,09 03	15,26 87	20,96 25

The most outstanding feature is the steep advance in the deposits of all kinds which at Rs 159,44 lakhs is the highest level ever recorded in the history of the Bank. Advances mark a sharp fall by Rs 61 crores due to the fact that following the usual seasonal lull, the demand for bank finance declined appreciably. Other features of the balance-sheet are a rise of Rs 570 crores in cash and a substantial rise of Rs 51.47 crores in investments, which, is Rs 95 lakhs more than the improvement in deposits of all kinds. The improvement in cash balances represents, in shape of increases under the heads "investments" is to be noted.

Another noteworthy feature of the balance sheet of this Bank is the Reserve Fund which, consistent with the leading position it occupies among banks in India, exceeds its large paid-up capital of Rs 5,62,50,000 and amounts to Rs 570,00 lakhs.

#### BANK RATE.

The bank rate of interest varied from 8 to 5 per cent. during 1929-30, 7 to 6 per cent. during 1930-31, 8 to 6 per cent. during 1931-32, and 7 to 3½ per cent. during 1932-33 but remained steady at 3½ per cent. from 16th February, 1932 upto 27th November 1935 since when the rate continues at 3 per cent. The Federal Reserve Bank of New York rate marked a drop from 1 per cent to ½ per cent since 29th October, 1942 while the Bank of England rate averaged 2.27 per cent. in 1939 and 2 per cent. in 1940.

Current Bank rates in other countries are given below for reference —

Centre	Changed	From	To
Calcutta	-- 28th November 1935	3½	3
London	-- 26th October 1939	3	2
New York	-- 29th October 1942	1	½
Paris	-- 17th March 1941	2	1½
Berlin	-- April 1940	—	3½
Brussels	-- 25th January 1940	2½	2
Rome	-- 18th May 1936	5	4½
Amsterdam	-- 28th August 1939	2	3
Berne	-- 25th November 1936	2	1½
Tokio	--	—	3 20

#### EXCHANGE BANKS.

The exchange banks are non-Indian with head-offices outside India. These are concerned mainly with tourist traffic while the principal business of the other banks is the financing of India's foreign trade. This work of financing India's foreign trade usually consists of two operations, viz (1) the financing of the movement of goods from Indian ports to foreign ports and vice versa, and (2) the financing of it from, or to, Indian ports to, or from, the distributing or collecting centres in the interior of India. Besides financing foreign trade, the exchange banks do every kind of banking business. They compete with the

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Imperial Bank and the Indian joint-stock banks by receiving deposits both on current and savings bank account, receiving fixed deposits, purchasing bills in foreign currencies, making loans against shipping and other documents, and financing imports of bullion. They also play some part in the financing of the inland trade in several up-country centres. The piecegoods trade in Delhi and Amritsar, the leather trade in Cawnpur and the jute trade in Bengal are financed by them to a large extent. The terms for the deposits of these banks are, as a rule, higher than those of the Imperial Bank of India but lower than those of the Indian Joint-Stock banks. While the Imperial Bank of India does not allow interest on current accounts, the exchange banks generally allow 1 per cent on daily balances exceeding a minimum limit up to Rs 1 lakh. The exchange banks do not publish any statements relating to their Indian business separately. The table below gives such figures as are available —

**Capital, Reserves, Deposits & Cash Balances.**

	No of Banks	Capital & Reserves (million £)	Deposits in India (in lakhs of rupees)	Cash Balance in India
1913	12	38	31,04	—
1919	11	53	74,36	29,98
1920	15	90	74,81	25,18
1921	17	112	75,20	23,57
1922	18	112	73,38	16,18
1923	18	140	68,44	14,48
1924	18	130	70,63	16,00
1925	18	138	70,55	10,00
1926	18	148	71,54	10,80
1927	18	181	68,86	8,13
1928	18	188	71,14	8,05
1929	18	228	66,66	9,05
1930	18	194	68,11	7,71
1931	17	186	67,47	8,81
1932	18	174	73,07	9,60
1933	18	143	70,78	6,72
1934	17	142	71,40	7,68
1935	17	137	76,18	12,55
1936	19	128	75,04	10,35
1937	18	128	73,21	10,58
1938	18	131	67,20	6,44
1939	19	126	74,18	7,39
1940	20	127	86,33	16,53
1941	17	106	106,73	13,40

It will be observed that at the end of 1941 there were 17 exchange banks working in India and Burma as against 20 a year ago.

**JOINT STOCK BANKS**

An important system of banking consists of the Indian Joint Stock Banks.

All the Indian joint stock banks are registered under the Indian Companies Act. The main business of these banks is to attract deposits, current, fixed and savings, and to finance trade by giving short-term advances against easily realisable securities, opening cash credits, and discounting inland bills of exchange. They also finance the movement of produce from the village to the exporting ports and distribution of imports from the port of entry to the distributing centres. Advances

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are made against hypothecation of agricultural products such as grain and cotton, against security of piecegoods and stocks in trade. The business of these banks so far as the agriculturists are concerned is usually confined to the larger land holder, the planting community and others who possess tangible and marketable security. The smaller banks are generally loan offices which advance money to the professional and agricultural classes. One or two Indian joint stock banks undertake business in foreign exchange, but their turnover in this is small.

The first joint stock bank in India was started in 1770 but purely Indian joint stock bank did not come into existence until the year 1881. The early joint stock banks were all under European control and management but during the past twenty years many Indian joint stock banks have sprung into existence, assisted by the Swadeshi Movement of 1905 and by the high tide of economic revival which swept over the country during the post-war period. In 1905 there were only 9 Indian joint stock banks commanding a total deposit of about Rs 12 crores. To-day the number has risen to 151 and the deposits to about Rs 108½ crores.

Nevertheless the scope of expansion of Indian joint stock banking is immense. In consideration of the fact that there are 2,500 towns in India, there is use for more branches of existing banks as well as for new local banks. Again the distribution of banks at present seems to be uneven. Banking offices are fairly distributed in the Punjab, the U P and the three Presidencies but banking facilities were inadequate in other parts of India, especially Bihar and Orissa, C P. Assam and most of the Indian States.

The position of the Joint Stock Banks with capital of Rs 50,000 and over during the last few years is shown by the following table —

The joint stock banks have been divided into four classes A, B, C, and D, according to the amount of their capital and have further been divided into scheduled and non-scheduled banks.

The number of reporting Banks under class 'A' with their capital, reserves, deposits, etc., are shown in the following table

	No of Banks	Capital	Reserves	Deposits	Cash Balance	Loans & Advances
				(in lakhs of rupees)		
1900	9	82	46	8,07	1,19	—
1910	16	2,76	1,01	25,66	2,80	—
1920	25	8,37	2,55	71,15	16,31	—
1930	31	7,47	4,43	63,26	7,68	—
1935	38	8,17	5,02	84,44	19,12	42,21
1936	42	8,49	5,47	98,14	15,28	52,08
1937	39	7,25	5,53	100,27	16,82	55,07
1938	43	7,49	5,66	98,08	14,00	52,21
1939	51	8,26	5,31	100,73	16,72	57,86
1940	58	9,09	5,57	113,98	26,26	54,14
1941	63	10,13	6,06	137,61	25,69	68,95

Of them 16, namely, the Central Bank of India, the Allahabad Bank, the Bank of India (Bombay), the Punjab National Bank, the Bank of Baroda, the Indian Bank (Madras), the Bank of Mysore, the Punjab and Sind Bank, the Bank of Behar (Patna), the Bengal Central Bank, the Comilla Banking Corporation, the Comilla Union Bank, the Indian Overseas Bank (Madras), the Nath Bank (Cal), the Bank of Indore, and Union Bank of India (Bombay) had deposits of Rs 1 crore and over. The deposits of the first six exceeded Rs 5 crores in each case.

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## 248 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Number of Banks under the category of Class 'B' was 125 in 1941 as against 122 in 1940 and 119 in 1938. Their aggregate paid-up capital was Rs 1,03 lakhs in 1941 as against 1 67 lakhs in 1940, 158 lakh in 1939, paid up reserves amounted to Rs 232 lakhs in 1939, Rs 244 lakhs in 1940 and Rs 256 lakhs in 1941. They attracted deposits of Rs 927 lakhs in 1939 and Rs 11,04 lakhs in 1940 and Rs 11,45 lakhs in 1941.

Number of Banks in class 'C' was 124 in 1941, 121 in 1940 and 112 in 1939 with total paid-up capital and reserves of Rs 77 lakhs in 1939, Rs 84 lakhs in 1940 and Rs 90 lakhs in 1941. They attracted deposits of Rs 298 lakhs, Rs 286 lakhs and Rs 393 lakhs in 1939, 1940 and 1941 respectively.

Number of Banks in class 'D' was 400 in 1939 with paid up capital of Rs 61 lakhs. Reserves of these Banks amounted to Rs 14½ lakhs. In 1941 the number of these banks was 332 with a fixed up capital of Rs 48 lakhs and reserves of Rs 12½ lakhs.

	No of Banks	Capital & Reserves (in lakhs of rupees)	Total Deposits	Cash Balances
1913	41	4,14	24,10	4,25
1919	47	8,38	61,28	12,71
1920	58	11,74	73,48	16,73
1921	65	13,40	80,16	16,10
1922	68	11,75	65,02	12,60
1923	69	10,85	47,69	1,98
1924	70	11,79	55,20	11,65
1925	74	11,78	57,91	10,78
1926	75	12,10	63,15	9,49
1927	77	12,30	64,30	8,22
1928	74	12,29	66,35	8,71
1929	78	12,69	66,30	9,50
1930	84	13,31	67,65	8,19
1931	84	13,36	66,19	8,16
1932	83	13,50	76,27	10,41
1933	84	13,64	76,42	11,71
1934	105	14,16	81,88	11,86
1935	105	14,70	89,89	19,97
1936	116	15,51	103,66	16,31
1937	151	15,01	108,66	18,13
1938	163	15,56	106,81	15,29
1939	682	17,42	115,62	19,00
1940	301	17,93	127,88	29,09
1941	312	19,65	153,04	29,34

Bills discounted and loans and advances allowed by the Indian Banks was Rs 80,43 lakhs in 1941 Rs 54,44 lakhs in 1940 and Rs 57,86 lakhs in 1939.

### TOTAL PRIVATE DEPOSITS

A remarkable fact indicating the head of more banks in India is the steady growth of deposits in the existing banks. The total deposits in all banks in this country increased from Rs 210 crores in 1924 to Rs 217 crores in 1928 but received a setback in 1929 and dropped to Rs 212 crores.

Since then the deposits have been regularly on the increase as will be seen from the figures appended in the table. The deposits advanced very high in 1940, recording a rise of 70 crores over the

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deposits held in 1939, and reached a record value of Rs 421 crores in 1941

A comparative table showing the private deposits received by the Exchange Banks, Imperial Bank of India and Joint Stock Banks follows —

	Reserve Bank	Exchange Banks	Imperial Bank	Joint Stock Banks	Total
		(in lakhs of rupees)			
1913	--	31,04	36,49	24,10	91,36
1919	--	74,36	68,21	62,27	2,63,84
1920	--	74,80	78,02	73,48	2,26,30
1921	--	75,20	65,78	80,16	2,21,14
1922	--	73,38	57,01	65,02	1,95,41
1923	--	68,44	74,20	47,69	1,98,90
1924	--	70,63	76,71	55,16	2,10,05
1925	--	70,55	77,83	57,91	2,11,75
1926	--	71,54	73,90	63,15	2,15,94
1927	--	68,86	72,07	64,30	2,12,43
1928	--	71,14	71,30	66,35	2,16,74
1929	--	66,66	71,64	66,30	2,12,20
1930	--	68,11	76,60	67,65	2,19,73
1931	--	67,47	63,86	66,19	2,05,83
1932	--	73,07	68,36	76,27	2,17,70
1933	--	70,78	74,13	76,42	2,27,77
1934	--	71,40	74,28	81,88	2,34,28
1935	34,65	76,18	79,10	89,89	2,79,81
1936	23,28	75,04	78,80	103,66	2,80,78
1937	31,19	73,21	81,08	1,08,66	2,94,13
1938	24,20	67,20	81,51	1,06,81	2,86,05
1939	32,88	74,08	87,84	1,15,62	3,18,71
1940	65,79	85,33	96,03	1,27,88	3,88,16
1941	56,14	1,06,73	1,08,92	1,49,09	4,20,88

#### SCHEDULED BANKS IN 1940.

Banks which carry on the business of banking in British India and which (a) have paid-up capital and reserves of an aggregate value of not less than five lakhs of rupees and (b) are companies as defined in clause (2) of Section 2 of the Indian Companies Act, 1913, or corporations or companies incorporated by or under any law in force in any place outside British India are included in the second schedule to the Reserve Bank Act and are known thereafter as scheduled banks. Banks fulfilling similar conditions in Burma are included in the second schedule to the India and Burma (Burma Monetary Arrangements) Order and are known thereafter as Burma Scheduled Banks. At the end of the year 1941 there were 63 scheduled banks including 17 Exchange Banks

The following table compares the position of scheduled banks (including Burma Scheduled Banks) on 26th June, 1942, 27th June, 1941, 28th June 1940 and 30th June 1939

	As on 30 6 39	As on 28 6 40	As on 27 6 41	As on 26 6 42
	(in lakhs of rupees)			
Demand Liabilities				
in India and Burma	1,31,84	1,43,94	1,94,90	2,67,15
Time Liabilities				
in India and Burma	1,08,16	1,07,76	1,07,41	97,31
Cash in India and Burma	10.11	11.02	12.03	14.52

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## 250 INDUSTRY YEAR BOOK & DIRECTORY, 1943

	As on 30 6 39	As on 28 6 40 (in lakhs of rupees)	As on 27 6 41	As on 26 6 42
Balances with the Reserve Bank	26,55	20,30	29,66	60,93
Advances in India and Burma	1,15,65	1,40,24	1,27,80	94,30
Bills discounted in India and Burma	6,36	5,01	5,42	1,47

### OTHER SCHEDULED & BURMA SCHEDULED BANKS

The total paid-up capital and reserves of other Scheduled and Burma Scheduled Bank amounted to Rs 13,60 crores at the end of 1941 as compared with Rs 12 67 crores at the end of 1939. The deposits of the banks also increased considerably during the period, the total rising from Rs 106 crores at the end of 1940 to Rs 129 crores at the end of 1941. The ratio of cash to deposits of these banks fell from 23.6 in 1940 to 18.8 in 1941. The ratio of investments to deposits rose to 45.4 in 1941 from 40.0 in 1940. Loans and advances also improved to Rs 62,76 crores in 1941 from Rs 48.95 crores in 1940.

### NON-SCHEDULED BANKS.

These banks have been divided into four classes, (a) banks which have paid-up capital and reserves of Rs 5 lakhs or over but which have not so far been included in the second schedule under Section 42 (6) of the Reserve Bank Act, including a number of banks registered and working in Indian States and having no branches in British India and which are therefore ineligible for inclusion in the second schedule, (b) banks having paid-up capital and reserves between Rs 1 lakh and Rs 5 lakhs, (c) banks having paid-up capital and reserves between Rs 50,000 and Rs 1 lakh, and (d) banks having paid-up capital and reserves of less than Rs 50,000.

At the end of 1941, there were 19 banks having paid-up capital and reserves of Rs 5 lakhs or above, 125 banks with capital and reserves between Rs 1 lakh and Rs 5 lakhs, 124 banks with capital and reserves between Rs 1 lakh and Rs 50,000 and about 656 non-scheduled banks with paid-up capital and reserves below Rs 50,000. The total deposits of the non-scheduled banks having capital and reserves of Rs 50,000 or over amounted to Rs 32,57 lakhs at the end of 1941 as compared with Rs 29,66 lakhs at the end of 1940. The total number of their offices numbered 717 at the end of 1941 as compared with 572 at the end of 1940. As regards banks having paid-up capital and reserves below Rs 50,000, their balance sheets for the year 1941 are not yet available in several cases. The capital and reserves of the 332 banks whose balance sheets have been consolidated amounted at the end of 1940 to Rs 60 lakhs and deposits to Rs. 272 lakhs.

The following table compares the position of demand and time liabilities and cash balance of non-scheduled Banks as shown by their monthly returns as on last Friday of each year.

	No of banks submitting returns	Demand liabilities	Time liabilities (in lakhs of rupees)	Total demand and time liabilities (in lakhs of rupees)	Cash reserve	Percentage of cash to demand and time liabilities
1938	626	383	11,59	15,42	105	6.8
1939	669	487	11,09	15,96	110	6.9
1940	604	526	11,48	16,74	130	7.8
1941	601	706	12,48	19,54	164	8.4

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In the case of scheduled banks the ratio of cash to demand and time liabilities which stood at 8.05 at the end of 1938 rose to 10.19 in 1939 to 20.70 at the end of 1940 and 12.35 at the end of 1941. The decrease in cash ratio at the end of 1941 is to be attributed partly to the desire of bankers to keep their position liquid in view of war conditions and partly to the slackness of demand for trade finance during the latter half of 1940 as a result of war developments. The ratio of loans and advances to demand and time liabilities showed a decline from 58.8 per cent at the end of 1939 to 37.7 per cent at the end of 1940 but rose slightly to 38.19 in 1941.

The total demand and time liabilities of non-scheduled banks working in British India only rose during 1941 to 19.54 crores from Rs. 16.74 crores in 1940. The ratio of cash to demand and time liabilities also rose from 7.8 to 8.4 during 1940.

### CASH RATIOS OF DIFFERENT CLASSES OF BANKS.

The percentage of cash to deposits varies widely not only from year to year but also from one class of banks to another, as will be seen from the following table —

		Per cent of cash to deposits	Per cent. of invest- ments to deposits	Per cent of advances to deposits
<b>Scheduled Banks—</b>				
Imperial Banks	1939	12.6	43.3	55
" "	1940	25.9	50.6	33.6
" "	1941	14.0	59.1	35.7
Exchange Banks	1939	10.0	—	—
" "	1940	19.3	—	—
Other Scheduled Banks	1939	17.2	38.9	56.1
" "	1940	23.6	40.0	46.1
" "	1941	18.8	45.4	48.6
<b>Non-Scheduled Banks—</b>				
'A' Class	1939	12.2	28.2	86.9
" "	1940	18.4	25.5	72.0
" "	1941	20.7	28.9	72.7
'B' Class	1939	17.4	14.1	88.9
" "	1940	20.6	15.4	90.6
" "	1941	24.9	16.5	78.6
'C' Class	1939	14.4	8.7	108.7
" "	1940	17.3	9.2	85.3

### BANK FAILURES

The total number of banks which went into liquidation or otherwise ceased to work in 1941 amounted to 58 with a paid up capital of 7.36 lakhs as compared with 95 banks with a paid up capital of Rs. 10.99 lakhs in 1940.

### CLEARING HOUSE RETURNS.

The total amount of cheques cleared through all the clearing houses during 1941 amounted to Rs. 26.83 crores as compared with Rs. 22.52 crores in 1940, Rs. 22.15 crores in 1939, while the total number of cheques cleared amounted to 1.82 lakhs in 1941 as compared with 1.69 lakhs in 1940, 1.57 lakhs in 1939.

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**CO-OPERATIVE BANKS.**

Co-operative banks are established under the Co-operative Societies Acts. They consist of the provincial banks at the apex, the central banks and primary societies which are mostly affiliated to the central banks. Under the Acts and the rules of the Co-operative Department, the co-operative banks and societies are debarred, except with the general or special sanction of the Registrar, from lending to any one who is not a member of the institution. Most of the primary societies are agricultural and their main function is to supply credit to the agriculturist. The provincial banks assist the central banks by advancing funds for use as part of their working capital and also by the grant of ordinary and special cash credits to enable the provincial banks to work on a low level of till money. The provincial banks obtain their finance mainly from deposits from the public but central banks and primary societies also contribute to the resources of the provincial bank in the shape of share capital and deposits of their surplus funds. The provincial banks have also arrangements for cash on credits and overdrafts with the Imperial Bank.

The primary function of the central banks is to supply the working capital needed by their affiliated primary societies. They obtain their finance partly from the apex provincial bank and partly from the deposits by the public. The majority of shares in central banks are held by affiliated societies. The primary societies maintain a register of assets and liabilities of each individual member and a copy of this is kept by the Central Bank.

There are also non-agricultural societies both with limited and unlimited liability which cater to the needs of a great variety of persons including officers of Government, employees of industrial companies, contractors, small traders, fishermen, weavers, artisans and others.

The following table provides useful information regarding the position of the co-operative banks.

	Number	Capital & Reserves	Deposits	Loans Outstanding	Cash Balance
		(in lakhs of rupees)			
1919-20	31	78	3,60	—	11
1929-30	179	5,18	27,03	23,05	1,52
1930-31	199	5,91	30,24	24,55	1,55
1931-32	208	6,36	36,95	24,04	1,92
1932-33	220	7,13	37,16	23,50	3,58
1933-34	229	7,26	30,78	23,38	2,80
1934-35	236	8,03	41,13	24,34	3,06
1935-36	274	9,37	33,98	27,12	3,24
1936-37	297	10,23	35,24	28,46	3,75
1937-38	296	10,00	35,23	29,00	2,90
1938-39	304	10,69	38,78	32,79	3,09
1939-40	318	11,16	29,09	33,54	3,17
1940-41	321	11,15	38,18	31,93	3,82

Co-operative banks are also sub-divided into two classes, namely (A), those with a paid-up capital and reserves of Rs 5 lakhs and over, and (B) those between Rupees one lakh and Rs 5 lakhs. Statistics in respect of Burma banks have been included for the years 1938-39 and 1939-40. At the end of the co-operative year 1941, there were 42 banks in class 'A,' and 279 in class 'B'.

The following table shows the extent of progress made by co-operative banks of classes 'A' and 'B' during the last ten years —

**"Dental Preparations"**—An invaluable guide to manufacturers of tooth powders, pastes, mouth-washes, etc. Re 1/12, Industry Book Dept, Cal.

Year	No of Banks	Paid-up capital	Reserves & other funds	Total	Deposits & loans held	Loans out-standing	Cash balances
			(in lakhs of rupees)				
“ A ” Banks —							
1930-31	27	1,59	97	2,56	12,75	10,57	88
1938-39	43	2,41	2,95	5,35	22,92	18,34	2,03
1939-40	41	2,43	3,05	5,48	22,94	18,91	1,90
1940-41	42	2,36	3,14	5,51	22,66	17,92	2,34
“ B ” Banks .—							
1930-31	172	2,09	1,26	3,35	17,66	13,85	1,06
1938-39	261	2,50	2,85	5,35	15,86	14,45	1,06
1939-40	277	2,61	3,06	5,68	16,14	14,63	1,26
1940-41	279	2,42	3,22	5,64	15,52	14,01	1,49

The total number of all kinds of societies for all-India in 1940-41 stood at a new record high level of 142,512 as against 136,879 in 1939-40 and 122,196 in 1938-39. The number of members taking part in the movement was also higher at 6,400,359, as compared with 6,081,570 in the previous year and 5,874,112 in 1938-39. The paid-up capital of all banks increased from Rs 14.36 crores to Rs 14.66 crores and the reserves from Rs 17.93 crores to Rs 18.69 crores. There was a slight improvement in loans and deposits also from Rs 74.51 crores to Rs 75.98 crores. As a result of this all-round improvement, the total working capital showed a rise of Rs 2.23 crores to Rs 109.33 crores.

The total number of agricultural societies during 1940-41 was 123,723, as against 118,744 in the previous year with a membership and working capital of 4,341,000 and Rs 30.53 lakhs, as against 4,098,000 and Rs 30.51 lakhs, respectively, in 1939-40.

The total number of non-agricultural societies during the year 1940-41 was 17,442, as against 16,747 in the previous year, with a membership and working capital of 1,908,000 and Rs 28.53 lakhs, as against 1,855,000 and Rs 27.70 lakhs, respectively, in 1939-40.

#### LAND MORTGAGE BANK.

Land Mortgage banks have been started under the auspices of the co-operative movement in the Punjab, Madras, Bombay, Bengal and Assam but they are not sufficiently large in number or in size to meet fully the requirements of the Indian agriculturists for long terms credit, for the redemption of mortgages of land, for the clearance of debts and for land improvement.

The total number of land mortgage banks and societies during 1940-41 was 252 as against 243 in the previous year, with a membership and working capital of 1,05,280 and Rs 7.05 lakhs, as against 92,000 and Rs 6.27 lakhs, respectively in 1939-40.

The working capital of these banks are mostly derived by the issue of debentures mostly guaranteed by Government. Madras has the most well-developed organisation in this field after which come Bombay, the Central Provinces and Berar, and Mysore.

#### LOAN OFFICES.

Loan offices also operate along the lines of land mortgage banks and occupy an intermediate position between indigenous banks and modern joint stock banks. These grant loans against mortgage of land, pledge or ornaments or personal security. They seldom finance trade and industry.

**"Dental Preparations"**—An invaluable guide to manufacturers of tooth powders, pastes, mouth-washes, etc. Re. 1/12. Industry Book Dept., Cal.

## RECENT BUSINESS FIGURES

Comparative statement of the position of important Indian Banks with paid-up capital and reserves of rupees ten lakhs and over during 1941 is given below —

	No of Offices	Capital & Re- serves	Total Depo- sits	Bills Dis- counted	Loans & Over- drafts	Invest- ment in Govt Secu- rities, etc	Profit
(In lakhs of rupees)							
Allahabad Bank	66	92	12,97	27	4,71	5,83	6
Bank of Baghel- khand	23	12	75	—	32	24	49
Bank of Baroda	26	1,15	9,60	23	4,61	4,04	5
Bank of Behar	17	22	1,28	—	84	22	1 22
Bank of Commerce	5	13	22	—	9	3	—
Bank of India	22	2,01	25,86	67	10,38	11,62	24
Bank of Indore	3	10	1,47	16	67	59	1 45
Bank of Mysore	22	20	3,22	13	1,71	1,41	3 45
Bengal Central Bank	19	11	1,60	—	79	47	43
Calcutta National Bank	26	21	40	37	31	7	55
Central Bank of India	1,55	3,05	41,32	2,69	16,16	20,94	19
Central Banking Cor- poration of Travan- core	7	26	6	—	35	44	—
Comilla Banking Corporation	25	21	1,88	25	89	78	21
Comilla Union Bank	24	19	2,08	10	1,10	41	1 32
Devkaran Nanjee Banking Co	5	11	46	1	12	32	32
Habib Bank	3	25	26	8	24	21	—
Indian Bank	49	31	6,44	75	4,02	2,16	2 73
Indian Overseas Bank	14	29	1,56	23	90	83	64
Indo-Commercial Bank	28	19	94	13	51	34	89
Industrial Bank of Western India	2	10	2	—	9	4	66
International Bank of India	6	10	41	5	18	16	24
Karnani Industrial Bank	1	60	16	17	41	1	—
Nath Bank	26	12	1,43	7	86	35	74
Patiala State Bank	16	27	93	—	58	40	—
Punjab Co-operative Bank	8	10	94	—	57	39	1 42
Punjab National Bank	72	47	9,80	—	3,93	4,98	1 35
Punjab & Sind Bank	10	23	1,77	—	35	1,22	89
Union Bank of India	4	52	2,27	15	94	1,48	3 28
United Industrial Bank	4	16	37	—	17	29	—

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# INSURANCE IN INDIA

**T**HOUGH the principles of insurance were tried and verified as early as in the seventeenth century in various forms, it was not before the nineteenth century that these met their first application in India.

But the progress though slow has been steady and the spade work done by insurance companies has awakened a class consciousness on the essential necessities of insurance and the manifold benefits it confers. The first period of every innovation is often very trying and it was so in the case of Indian insurance but with the dawning of the twentieth century the progress has been livelier as the gradual expansion of the companies clearly exhibits.

The Indian insurance companies that dominate the field now are conducted efficiently and their accumulated funds and solvent position fully justify Indian support more and more. Entering the field where powerful foreign companies had once enjoyed a practical monopoly, they proved their mettle by working their way to steady growth against vigorous competition and disadvantages. They have to this date to work against numerous obstacles, the chief amongst which is that imposed by foreign bankers who are very reluctant to accept the policies from Indian insurance companies in the matter of extending credits. They have still to secure the active support of the Indian business houses who will continue their transactions with foreign houses on the ground that they cannot give up their long standing connection. These disadvantages are only passing phases and with the gradual expansion of insurance business, for which scope in India is now unlimited by propaganda work, there is no doubt that Indian insurance companies will develop into a power in the land.

## HISTORY OF INDIAN INSURANCE

The history of the growth of insurance in India makes interesting reading. Provision for widows, left destitute after the death of their husbands, met the first consideration. The oldest of the existing Indian companies which were established nearly a century ago in Madras and the United Provinces were thus meant for the benefit of widows. Of them the only one now existing is the Bombay Widows' Pension Fund established in 1876 which seems to have been the first widows' fund to admit Hindus.

Life assurance next attracted the attention. The first Indian Company to issue ordinary life assurance policies was The Madras Equitable. Being founded by Messrs Arbuthnot & Co, of Madras in the year 1829, this company worked successfully for many years and accumulated funds of about a quarter of a crore but went into liquidation shortly after the termination of the war owing to the heavy depreciation of its investment at that time and to the decrease in its income on account of its having stopped the issue of new policies a few years previously. By the disappearance of this old mutual company the Bombay Mutual, which was founded in 1871, is now the oldest Indian mutual life assurance company.

The Oriental of Bombay, which was founded in 1874 is the oldest Indian proprietary company transacting ordinary life assurance.

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business and has accumulated funds exceeding 23 crores. The next four oldest are the Hindu Mutual Life Assurance Ltd., the Indian Life of Karachi, Bharat of Lahore and the Empire of India of Bombay, which were established between 1891 and 1897. In Madras the oldest proprietary company is the United India which was established in 1906 and which had the advantage of following the lead of the Madras Equitable and other economically managed Southern Indian mutual concerns in much the same way as many of the companies in Western India profited by the excellent lead of the Oriental. In Bengal proprietary companies were first started in 1906 during the days of Swadeshi Movement. Several of the companies established in that Presidency at about that period succumbed to the temptation to pay too heavily for new business or adopted other unsound methods of conducting their affairs with the inevitable result that nearly half of them had to go into liquidation in a few years of their existence.

During the period of the Great War, there was only an addition of four Indian insurance companies, and in the post-war period from the year 1918 to 1924 there was a further addition of five Indian Life Assurance Companies. But from the year 1926 onwards there has been a steady increase of new life insurance companies with the result that whereas at the end of 1926 there were 51 Indian life assurance companies with a combined premium income of nearly Rs. 253 lakhs, there were as many as 217 companies in 1938, of which 182 were doing life insurance business with a combined premium income of over Rs. 228 lakhs. The number of companies however diminished considerably on passing of Indian Insurance Act. No progress of any substantial character has, however, been made in the case of other classes of insurance.

It is refreshing that the companies that survived profited by the hard won experiences of their less fortunate rivals that were forced to leave the field. They have considerably remodelled their institutions and there are now not a few Indian insurance companies which are as much efficiently and scientifically managed as the best European or Colonial ones.

#### INSURANCE BUSINESS IN INDIA.

The number of companies which come during 1940 under the provisions of the Indian Insurance Act, 1938 are 294. Of them 198 companies are constituted in India and 96 companies are constituted outside India.

Most of the Indian companies do life assurance business only. As many as 161 of the Indian companies carry on life assurance business and of the remaining 37 Indian companies, 18 carry on life business along with other insurance business and 19 carry on insurance business other than life. The companies are distributed all over India. Of the 198 Indian companies 72 are established in the Bombay Presidency, 48 in Bengal, 32 in Madras Presidency, 17 in the Punjab, 12 in Delhi, 7 in the United Provinces, 3 in the Central Provinces, 3 in Sind, 2 in Bihar, and 1 each in Assam and Ajmer Merwara.

The table showing the proportion of Indian and non-Indian companies follows —

	Indian Companies	Non-Indian Companies	Total
1928	97	148	245
1929	108	149	257
1930	130	147	277

Complete information on manufacturing all sorts of milk products are contained in "Milk & Milk Products" Re. 1/12. Industry Book Dept., Cal

		Indian Companies	Non-Indian Companies	Total
1931	--	136	146	282
1932	---	169	150	319
1933	---	194	147	341
1934	--	217	149	366
1935	---	234	147	381
1936	---	232	147	379
1937	---	219	149	360
1938	---	217	143	360
1939	--	197	98	295
1940	--	198	96	294

**LIFE ASSURANCE BUSINESS**

Life assurance companies, of course, have been established in this country for quite a long time. Following the world progress in the insurance business, the development of the life insurance companies during the last few years in India has been remarkable. The following table shows the new business effected by Indian companies since 1920 in each year and their total business in force at the end of the year.

		New Business Effected (Figures in lakhs of rupees)	Total Business In Force
1920	-	5.17	31.00
1921	-	5.47	34.00
1922	-	5.64	37.00
1923	-	5.85	39.00
1924	-	6.89	42.00
1925	-	8.15	47.00
1926	-	10.35	53.00
1927	-	12.77	60.00
1928	-	15.41	71.00
1929	-	17.29	82.00
1930	-	16.50	89.00
1931	-	17.76	98.00
1932	-	19.66	1,06.00
1933	-	24.83	1,19.00
1934	-	28.92	1,37.00
1935	-	32.82	1,52.00
1936	-	36.00	1,68.00
1937	-	39.00	1,84.00
1938	-	46.68	2,19.00
1939	-	45.96	2,32.42
1940	-	36.11	2,85.63

The above table will show that Indian insurance has made phenomenal progress during the last 20 years. At the end of 1920 the total business of the companies in India remaining in force amounted to only Rs 31.00 lakhs, of which new business written during that year was only Rs 5.17 lakhs. At the end of 1940 the total business remaining in force of the Indian companies amounted to no less than Rs. 286 crores of which Rs 36,11,00,000 represented new business written during the year.

The total new life assurance business effected in India excluding business on the dividing plan by the Indian and non-Indian companies in five years ending 1940 and that remaining in force at the end of those years are shown separately in the table —

Complete information on manufacturing all sorts of milk products are contained in "Milk & Milk Products." Re. 1/12, Industry Book Dept., Cal.

NEW BUSINESS				
	1937	1938	1939	1940
<b>Indian Companies</b>				
No of Policies	263,000	296,000	289,000	196,000
New Sums Assured (in lakhs of rupees)	39,00	43,30	42,51	32,32
Premium Income (in lakhs of rupees)	2,02	2,28	2,14	1,67
<b>Non-Indian Companies</b>				
No of Policies	31,000	26,000	11,000	10,000
New Sums Assured (in lakhs of rupees)	9,67	8,42	4,11	3,79
Premium Income (in lakhs of rupees)	51	43	23	22
<b>Total</b>				
No of Policies	294,000	322,000	300,000	206,000
New Sums Assured (in lakhs of rupees)	48,67	51,72	46,62	36,11
Premium Income (in lakhs of rupees)	2,53	2,71	2,37	1,89

**TOTAL BUSINESS IN FORCE**

	1937	1938	1939	1940
<b>Indian Companies.</b>				
No of Policies	1,099,000	1,240,000	1,331,000	13,72,000
New Sums Assured (in crores of rupees)	1,84	2,04	215 2	225 51
Premium Income (in lakhs of rupees)	9,00	10,45	11,13	10,69
<b>Non-Indian Companies</b>				
No of Policies	272,000	276,000	166,000	181,000
New Sums Assured (in crores of rupees)	93	94	56 6	60 12
Premium Income (in lakhs of rupees)	5,20	4,92	3,13	3,30
<b>Total</b>				
No of Policies	1,371,000	1,516,000	1,497,000	1,553,000
Total Sums Assured (in crores of rupees)	2,77	2,98	2,71 8	285 63
Premium Income (in lakhs of rupees)	14,20	15,37	14,26	13,99

The total new sums insured by Indian life offices in 1940 amounted to Rs 35 23 00 000 as compared with Rs 45,76,00,000 in the previous year. The total business remaining in force at the end of the year was Rs 243,91,00,000, as compared with 232,42 00,000 at the end of the previous year. The total revenue income of the Indian life offices during the year amounted to Rs 14,67,00,000 as compared with Rs 14 83,00,000 in 1939.

The share of the British companies in respect of new sums assured is 2 05 crores, of the Dominion and Colonial companies 3 4 crores, of the single German company 1 95 crore and of the single Swiss Company 0 11 crore. The average sum assured under the new policies issued by Indian companies is Rs 1,473 and under those issued by non-Indian Companies Rs 3,716.

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### ANNUITY BUSINESS

A striking feature of the Indian companies is the almost negligible amount of business done by them under annuity contracts, while in the case of non-Indian companies annuity contracts constitute an appreciable portion of their total life assurance business. Even the small amount of annuity business the Indian companies were getting in the past is gradually decreasing. Evidently annuity contracts have not yet found favour with Indians in general.

The total new annuity business effected during the year 1939 was for the amount of 2½ lakhs per annum of which the share of Indian companies was 50,000 per annum. The total annuity business remaining in force at the end of that year was for the amount of 14.59 lakhs per annum, of which the amount payable by Indian companies was Rs. 6½ lakhs per annum.

### LIFE BUSINESS OUTSIDE INDIA BY INDIAN COMPANIES.

Some Indian life offices, it may be noted, have extended their operations outside India, chiefly in Burma, British East Africa, Ceylon, Federated Malay States, and Straits Settlements. The total new sums assured by these offices outside India during 1940 amounted to Rs. 2,91,00,000 yielding a premium income of Rs. 16,00,000, as compared with Rs. 3,45,00,000 yielding a premium income of Rs. 19,00,000 in the preceding year. The total sums insured remaining in force at the end of 1940 amounted to Rs. 18,40,00,000 having a premium income of Rs. 96,00,000 as compared with Rs. 17,23,00,000 having a premium income of Rs. 93,00,000 in the previous year.

### FIRE, MARINE AND MISCELLANEOUS INSURANCE BUSINESS

The insurance business other than life was until 1919 left entirely to non-Indian companies but the advent of half a dozen Indian companies was responsible for diverting a small portion of this business to the latter. The number of Indian companies has since then increased to 18 but still the major part of the business lies in the hands of the non-Indian companies as will be amply exhibited by the following table —

	Fire	Premium Income		Total
		Marine	Miscellaneous	
(in lakhs of rupees)				
Indian Companies				
1930	25	10	26	61
1931	28	7	24	59
1932	28½	7½	28	64
1933	30½	6½	33½	71
1934	29½	7½	17	54
1935	31	9	19	59
1936	36	11	27	74
1937	47	16½	33	96
1938	43	12	34	89
1939	48	18	36	102
1940	54	29	35	118
Non-Indian Companies				
1930	1.20	41	62	2.23
1931	1.00	36	53	1.89
1932	97½	36½	47½	181½
1933	97½	35	46½	179½
1934	1,05½	37	50½	193

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	Fire	Premium Income Marine Miscellaneous (in lakhs of rupees)		Total
1935	1,11	37	55	2,03
1936	1,01	41	58	2,00
1937	98	46	58	2,02
1938	95	40	58	1,93
1939	1,05	77	53	2,35
1940	92	1,01	50	2,43
<b>Total,</b>				
1930	1,46	51	87	2,84
1931	1,28	43	77	2,48
1932	1,26	44	75½	2,45½
1933	1,28	42	80½	2,50½
1934	1,35	44	68	2,47
1935	1,42	46	74	2,62
1936	1,37	52	85	2,75
1937	1,45	62	91	2,98
1938	1,38	52	92	2,82
1939	1,52	95	90	3,37
1940	1,46	130	85	3,61

It will be seen that the total net Indian premium under insurance business other than life assurance in 1940 was Rs 3,61,00,000. In this amount, the Indian companies' share was Rs 1,18,00,000 and of non-Indian companies Rs 2,43,00,000. The Indian companies received Rs 54,00,000 from fire, Rs 29,00,000 from marine and Rs 35,00,000 from miscellaneous insurance business while non-Indian companies received Rs 92,00,000 from fire, Rs 1,01,00,000 from marine, and Rs 50,00,000 from miscellaneous insurance business.

The Indian companies which transact a substantial amount of fire or marine business also operate outside India. These companies had a net premium income also of 93 lakhs of rupees in 1940 from business outside India as against Rs 85 lakhs in 1939 and 108 lakhs in 1938.

The following table compares the position of the Indian and non-Indian companies in life, fire, marine and miscellaneous insurance business.

	Indian Companies			Non-Indian Companies			Total		
	1938	1939	1940	1938	1939	1940	1938	1939	1940
	(in lakhs of Rs)			(in lakhs of Rs)			(in lakhs of Rs)		
Life	10,45	11,13	10,69	4,92	3,13	3,30	15,37	14,26	13,99
Fire	43	48	54	95	1,05	92	1,38	1,52	1,46
Marine	12	18	29	40	77	1,01	52	95	1,30
Miscellaneous	34	36	35	58	53	50	92	90	85
<b>Total</b>	<b>11,34</b>	<b>12,15</b>	<b>11,87</b>	<b>6,85</b>	<b>5,48</b>	<b>5,73</b>	<b>18,19</b>	<b>17,63</b>	<b>17,60</b>
Percentage share	62	69	67	38	31	33	1,00	1,00	1,00

### LIFE ASSURANCE FUND

There has been an increase in the amounts of the claims by death and by survivorship over the past several years. In 1929, the figures were by death, Rs 80,08,000 and by survivorship, Rs 83,11,000 whereas in 1939, the respective figures were Rs 1,96,00,000 and Rs 2,13,00,000.

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The life assurance funds increased by Rs 6,00,00,000 and amounted to Rs 62,41,00,000 at the end of 1939. The rate of interest earned on the life funds during the year, after deductions of income-tax at source, was 4.37 per cent, as compared with 4.68 per cent in the previous year. The total expenses of management expressed as a percentage of the premium income during the year worked out to 28.9 per cent as compared with 33.2 per cent in the previous year.

### INSURANCE COMPANIES' ASSETS

The bulk of investment of the Indian companies are in stock exchange securities which constitute about 70 per cent of the total assets.

The total assets in India of non-Indian companies amount to Rs 24.92 crores of which Rs 14.77 crores represents the Indian assets of the companies constituted in the United Kingdom and Rs 9.86 crores those of companies constituted in the Dominions and Colonies. The Indian assets of the American Companies amount to Rs 12 lakhs, those of the Continental Companies to Rs 8 lakhs, of the Japanese to Rs 6 lakhs and of the Japanese to Rs 3 lakhs. Out of this total amount of Rs 24.92 crores, Rs 21.1 crores represents Indian assets of companies which carry on life insurance business in India either solely or along with other insurance business.

### INSURANCE BUSINESS ON THE DIVIDING PLAN.

Some Indian companies transact life assurance business on the dividing plan under which the sum assured is not fixed but depends on the division of a portion of each year's premium income amongst the claims arising in that year. Those companies which still transact this class of business are required by law to cease transacting by July 1, 1942. The societies registered under the Provident Insurance Societies Act, 1912 and which have in the past transacted mostly dividing insurance business, are already required by the Act to cease this business.

### PROVIDENT INSURANCE SOCIETIES.

There were at the commencement of the Insurance Act, 1939, 505 societies registered under the Provident Insurance Societies Act, 1912, mostly transacting dividing insurance business. That type of business had to be stopped from 1st July, 1939 by most of the Societies, except in the case of a few which were allowed some time to reorganise their business on actuarial lines as provided by Section 69 of the Act.

Of the 505 societies existing at the commencement of the Insurance Act, 1938, 295 were established in Bengal, 34 in the Bombay Presidency, 57 in the Madras Presidency and 27 in Sind and the remaining Societies were scattered over the other provinces of India.

The essential difference between a life assurance company and a provident insurance society is that the company is subject to the Life Assurance Companies Act and not to the Provident Societies Act if, under assurances payable at death or on survival of any one life, it undertakes either to pay sums which in aggregate exceed Rs 500 or to receive premiums which in the aggregate exceed Rs 25 in any one year where the period for which premiums are payable is not limited, or which exceed Rs 250 altogether where such period is limited. If, as may happen in the case of a dividing society, the sum assured payable at death is not fixed but may in certain contingencies exceed Rs 500 the society is subject to Life Assurance Companies Act.

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**PROVIDENT SOCIETIES.**

According to Insurance Year Book, 1941, it appears that the reports of the Inspectors reveal a deplorable position of some of the Provident Societies and the unsatisfactory position of most. The cause of this may generally be attributed to the operation of unsound schemes which were not prepared on actuarial advice, coupled with improvident management which the premiums were never constructed to bear. It was also noticed that in many cases the management lacked even superficial knowledge not only of insurance matters but also of their most elementary legal obligations.

**RECENT BUSINESS FIGURES**

**Andhra Insurance Co Ltd**—Annual premium exceeds Rs 8 lakhs, Life funds amount to Rs 31,00,000 Invested funds exceed Rs 34,00,000

**Aryasthan Insurance Co Ltd.**—During 1941, New Business over 13½ lakhs, Total income about 3 lakhs, Life Fund nearly 9 lakhs Head Office Aryasthan Insurance Building, 15, Chittaranjan Avenue, Calcutta, General Manager, Mr S C Roy, MA, B L

**Bharat Gaurab Provident Insurance Co, Ltd., Howrah**—During 1941 Premium income Rs 6,301, Life fund Rs 6,695, Security deposit Rs 8,000/-

**Bombay Co-operative Insurance Society Ltd.**—In 1941 business completed amounted to Rs 44,62,575 as against Rs 40,42,550 during the preceding year, recording a rise of over Rs 4 lakhs. The total business in force with bonus additions amounted to over—Rs 1,27,40,000. The total membership increased to 11,851 by the addition of 3,270 new members during the year. The aggregate income amounted to over Rs 7,49,700 and the Life Fund to over Rs 11,88,700.

**Bombay Fire & General Insurance Company, Ltd.**—During, 1941, Fire Revenue Account New Premiums Rs 2,75,587 Losses paid and outstanding Rs 62,593 The Fire Fund at Rs 1,26,235 Marine Revenue Account New Premiums Rs 90,125 Losses paid and outstanding Rs 18,812 The Marine Fund Rs 64,028 Accident Revenue Account Net Premiums Rs 48,521 Losses paid and outstanding Rs 16,469 The Accident Fund Rs 20,908

**Bombay Life Assurance Company, Ltd, Bombay**—During 1941, 5725 proposals were made for assuring sums amounting in the aggregate to Rs 1,34,23,625 5109 policies for Rs 1,11,11,825/- yielding an annual premium income of Rs 5,92,294-14-0 were issued. Claims by death of 289 policyholders amounted with bonus additions to Rs 6,69,052-7-0 238 Endowment Assurances matured for Rs 4,49,624-12-0 including bonus. The net income from interest, dividends and rents was Rs 6.44 lakhs. The gross and the net yields on the Life Assurance Fund work out to 4.62 % and 4.06 % respectively. The expense ratio on renewal premiums was 17.63 % in 1941 as compared to 20.71 % in 1940. The Life Assurance Fund of the Company increased by Rs 29.05 lakhs to Rs 179 lakhs.

**Bombay Mutual Life Assurance Society, Ltd.**—During 1941, 10,697 proposals for assurance of Rs 2,05,86,500 were received of which 9,796 resulted into policies assuring a sum of Rs 1,70,68,500 with an annual premium income of Rs 9,06,210. The total assurance in force at the close of the year amounted to Rs 13,17,66,597.9-0 of which assurances to the extent of Rs 26,61,652 were re-insured. The total premium income during the year, inclusive of first year, renewal, single premiums, and deferred annuity premiums, amounted to Rs 62,85,409-7-3. Claims by death amounted to Rs 8,73,329-10-0, by maturity to

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3,35,156-0-8 and by way of permanent disability benefit to Rs 4,165. A sum of Rs 41,95,921 was added to the Society's investments. The total investments amounted to Rs 2,51,88,094.

**British India General Insurance Co., Ltd.**—During 1941, the net premiums in the Fire Department amounted to Rs 9,38,321, as compared with Rs 6,66,614 in the previous year. The net losses paid and outstanding amounted to Rs 3,09,532 or 32.99 per cent. The Fire Funds at the end of the year stood at Rs 4,25,328 or 45.33 per cent. The net premiums in the Marine Department amounted to Rs 1,61,990, as compared with Rs 1,21,983 in the previous year. The net losses paid on account of 1941 and preceding years amounted to Rs 1,01,457 or 62.63 per cent. The Marine Funds amounted to Rs 1,56,686 or 96.73 per cent. The net premiums of the Accident and General Department amounted in 1941 to Rs 5,30,443 as compared with Rs 5,22,817 in the previous year. The net losses paid and outstanding amounted to Rs 1,90,661 or 35.94 per cent. The Accident and General (Miscellaneous Insurance) Funds at the end of December, 1941, stood at Rs 2,42,177 or 45.66 per cent. The investments stood on 31st December, 1941, at Rs 15,02,221, representing an increase, over the previous year, of Rs 2,24,417.

**Co-operative Assurance Co. Ltd.**—For the year ended December, 31, 1941, new business amounted to Rs 15,40,350/-. Premium income during the period amounted to Rs 26,91,964/13/11. Claims by death arose for Rs 54,524/- and by survivorship for Rs 1,12,507. Life Fund Rs 21,81,546/9/-. Total assets Rs 26,91,964/13/11/-. The Company has recently started Fire Insurance and Miscellaneous Insurance.

**Empire of India Life Assurance Co., Ltd.**—During 1941, over 8,000 proposals for Rs 1,68,96,300 were received and 6,844 policies for Rs 1,34,38,435 were issued representing an annual premium income of Rs 6,72,833 and Rs 65,198 by single payments. The total number of policies in force is 80,910 assuring the sum of Rs 14,84,44,161 including bonus and of this amount Rs 5,03,477 are re-assured. Claims by death amounting to Rs 14,87,564 including bonus have arisen. Endowment assurances matured (during the life time of the assured) for Rs 30,75,851 including bonus. The expenses of management were 22.6 per cent of the premium income. A sum of Rs 71,341 has been transferred from the Life Insurance Reserve Fund and has been set off against house property in India and this asset now appears in the balance-sheet at the figure of Rs 3,55,000. The life insurance fund including the reserve funds amounts to Rs 5,52,21,519. The total assets amount to Rs 5,80,86,942. Investments are in gilt-edged securities and are redeemable on fixed dates at par but in the case of 3 per cent Defence Bonds, 1946, the redemption price is 101 per cent.

**Free India General Insurance Co. Ltd.**—Paid-up capital Rs 4,79,225. Assets exceed Rs 800,000, Life fund exceeds Rs 3,42,000, claims paid exceed Rs 9,34,000.

**General Assurance Society Limited, Ajmer.**—During 1941, the Society received 3,949 proposals for assurance aggregating to Rs 80,42,800 out of which 3,521 resulted into policies for a sum of Rs 68,58,150. The gross income amounted to Rs 25,60,266-8-11 showing an increase of Rs 1,08,612/15/- over the last year's figures. The expense ratio further decreased and is now 26.5 % only. Claim by death arose during the year under 227 policies and amounted to Rs 3,94,701/12/4 as against 4,42,400 last year while those by maturity amounted to Rs 5,92,468/1/- under 285 Endowment and 27 Triple Benefit policies. Claims paid by way of permanent disability benefit

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## 264 INDUSTRY YEAR BOOK & DIRECTORY, 1943

amounted to Rs 1054/- The total assets of the Society now amount to Rs 1,12,38,634

**Hindusthan Co-operative Insurance Society, Ltd.**—During 1941, 16,888 new proposals under Life Assurance and Provident (pure) Endowment Insurance were received for sums aggregating to Rs 3,54,67,000 13,953 new policies assuring an aggregate sum of Rs 2,72,77,515 of which Rs 2,72,41,599 including sums re-assured represent the sums assured under Life Assurance Policies and the balance Rs 35,916, under Provident (pure) Endowment Policies The Annual Premium Income on the New Business is Rs 12,79,443 The total number of policies in force was 1,08,692 assuring a total sum of Rs 18,99,04,661 The Premium Income in respect of Life Assurance business for the year amounted to Rs 89,36,508 and that of the Provident (pure) Endowment Insurance to Rs 24,709 The Life Assurance Fund at the end of the year amounts to Rs 4,21,89,449 and that of the Provident (pure) Endowment Insurance to Rs 1,81,688 Claims arising from death to the extent of Rs 12,13,560 were intimated and amounts of Rs 8,78,340 and Rs 9,400 became due in respect of matured policies under Life Assurance and Provident (pure) Endowment Policies respectively The ratio of expenses decreased considerably during the year and worked at 26.1 %

**Indian Life Assurance Co, Ltd, Karachi**—During 1941, 2,070 proposals for amounts aggregating Rs 49,19,800 were received 1,654 policies were issued for Rs 37,10,375 yielding an annual premium of Rs 1,85,078 and a single premium amounting to Rs 550 The total amount assured at the end of the year was Rs 2,69,32,933 and the total premium income for the year was Rs 10,44,309 The amount paid in claims was Rs 8,96,086, of which those by death accounted for Rs 3,64,280, by maturity Rs 5,00,764, and by surrender Rs 31,041 The expenses of management amounted to Rs 2,86,952 The balance of the life insurance fund at the end of 1941 was Rs 1,00,18,956 as against Rs 97,33,328 at the beginning of the year 1941 The major part of the Company's assets consists of Gilt-edged and other first class securities of the face value of Rs 1,03,96,900, their market value on 31st December, 1941, being Rs 1,16,12,396 The Company holds an investment reserve fund of Rs 7,03,911

**Industrial & Prudential Assurance Co. Ltd**—The total business of the Company on the 31st Dec, 1940, was over Rs 6,20,00,000 The Life Assurance Fund amounted to Rs 1,34,00,000 The Company has allotted a bonus of Rs 20 per thousand per annum on Whole Life Policies, and Rs 16 per thousand per annum on Endowment Policies

**Jupiter General Insurance Co, Ltd.**—The net premium rose Rs 721-10-8, from Rs 8,86,994 in 1940 to Rs 12,62,722 During 1941, in the Marine Department, the net premium amounted to Rs 6,45,602 as against Rs 5,88,196 in 1940 The net premium income in the Miscellaneous Department amounted to Rs 2,16,779 as against Rs 2,11,501 in previous year In the Life Department 1,538 policies were issued in 1941, aggregating to an amount of Rs 44,82,875 (less reinsurance Rs 6,06,500) with the average sum assured of Rs 2,914, as against 976 policies for Rs 20,86,000 with an average sum assured of Rs 2,137 in 1940 Claims by death amounted to Rs 1,15,024, as against Rs 1,27,385 in 1940, and claims by maturity amounted to Rs 60,800 as against Rs 2,69,627 last year The Life Fund has increased from Rs 21,00,101 in 1940 to Rs 24,48,644 at the end of 1941

**Lakshmi Insurance Co., Limited.**—2844 proposals were issued in 1941 assuring a total sum of Rs 1,18,04,110/- Out of the total receipts of Rs 45.71 lakhs there is outgo of Rs 21.92 lakhs and the

balance of Rs 23 80 lakhs is added to the life fund which shows an increase from Rs 1 55 crores to Rs 1 79 crores Life fund stood at Rs 179 02 lakhs, reserves at 8 32 lakhs and the paid up capital at Rs 1 01 lakhs The total assets are Rs 195 23 lakhs

**Long-Life Insurance Company, Limited**—During 1941, Proposals for assurance amounted to Rs 4,25,550/- (Male Rs 3,36,100/- and Female Rs 89,450/-) The combined Revenue Account of the Male and Female Departments discloses a premium collection of Rs 1,03,388 Life Fund has increased to Rs 2,33,066 The Company held with the Reserve Bank of India and the Government of Baroda, Government of India Securities of the Face Value of Rs 1,89,600/-

**Metropolitan Insurance Co., Ltd.**—During the year 1941, new business amounted to Rs 85,35,875 Proposals to the value of Rs 73,03,750 resulted into policies The ratio of the expenses has been 42 8 % as against 46 9 % of the previous year Claims to the extent of Rs 1,34,786-6-0 arose out of death, Rs 16,150-8-0 out of maturity and Rs 200/- out of Permanent Disablement Benefit Outstanding claims as at 31st December, 1940, amounted to Rs 1,29,725-7-0 Out of the balance a sum of Rs 63,925-2-0 has since been paid leaving on date a net balance of Rs 62 875-2-0 The Life Assurance Fund has risen to Rs 27,24,236-3-3 as against Rs 22,31,847-10-5 of the previous year, showing a rise of nearly 23 % Of this, Government Securities accounted to Rs 6,25,635-13-0, Policy Loans and Automatic Extension Loans Rs 4,57,959-6-0, Mortgage of Properties Rs 4,06,930, and Head Office Buildings Rs 3,60,151-13-0

**National Indian Life Insurance Company, Limited**—During 1941, 3,614 proposals for the assurance of Rs 72,87,400 were received and 2,976 policies for Rs 60,79,950 were issued of which Rs 7,42,000 under 37 policies were reassured The total income from all sources amounted to Rs 17,49,207 and shows an increase of Rs 79,910 over the previous year The Life Fund increased by Rs 5,26,936 and now stands at Rs 77,85,259 A sum of Rs 18,635-2-0 was written off as depreciation of securities At the close of the year the market value of the securities exceed the book value by Rs 3,84,850 Claims arose by death on 133 lives under 139 policies securing the sum of Rs 2,20,072 while 289 policies on 288 lives matured by survivorship involving the sum of Rs 4,40,828 only

**National Insurance Company, Limited**—During 1941, 8,986 New Proposals under Life Assurance and Capital Obligation Fund were received for sums aggregating Rs 1,98,49,753 and for Annuities of Rs 916/- per annum Of this number, 7,456 were accepted and resulted in New Policies including one annuity of Rs 420/- per annum The total sum assured is Rs 1,67,60,178 The net Annual Premium Income attaching to the New Business for the year after deduction for sums re-assured is Rs 7,98,556 Claims on account of death have been presented for an aggregate sum of Rs 10,57,775 and the further sum of Rs 17 08,293 became due in respect of matured Endowment Assurances The Life Assurance Fund now amount to Rs 3,69,81,039 as compared with Rs 3,46,35,457 at the beginning of the year The fund's have increased by the sum of Rs 23,45,583 The Capital Obligation Fund stands at Rs 6,18,683 The ratio of expenses is 26 4 %

**New Asiatic Life Insurance Co. Ltd.**—New business in 1940 increased by 20 % and exceed Rs 60 lakhs Life fund stood at Rs 7,09,264 showing an appreciable increase of 56 % over the preceding year's fund A bonus of Rs 15 and Rs. 12 per Rs 1000 on Whole Life

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and Endowment Policies respectively has been declared in the first valuation.

**New India Assurance Co. Ltd., (Life Dept.)**—During the year ended 31st December 1941, the Company received 7,110 proposals for assurance amounting to Rs 23,3,97,683 5,544 proposals resulted in policies for Rs 1,77,04,129 Total premium income amounted to Rs 52,58,194 Claims by death and maturity arose for Rs 7,81,013 Expenses of management absorbed 25.9 % of the premium income Life Fund increased to Rs 2,05,25,847 Total business in force Rs 10,60,35,987,

**New Insurance Limited, P. O. Box No 6, Benares**—New business completed during the year ending 31st December, 1941, amounted to Rs 12,57,850 The Premium Income for the year amounted to Rs 2,16,206/8/9 The Life Fund increased to Rs 3,67,044/8/2 as against Rs 2,44,642/7/3 at the beginning of the year Branch at Karachi, Chief Agencies at Calcutta, Delhi, Bombay, Baroda, Ahmedabad, Lucknow, Gorakhpur, etc Organising Offices & Agencies all over the Country

**Oriental Government Security Life Assurance Co., Ltd.**—During the year ending 31st December 1941, 53,628 proposals were received for assurance amounting to Rs 11,63,11,708 of which 37,067 policies assuring a sum of Rs 8,16,19,725 were accepted The total number of policies in force is 4,28,703 assuring with Bonus additions and increases Triple Benefit policies the sum of Rs 85,69,13,455 of which Rs 48,02,980 is re-assured The total number of current Annuities (exclusive of Deferred Annuities) in force is 92 for Rs 64,835-15-8 per annum of which Rs 1,854 is re-assured The claims for the year inclusive of Bonus additions amounted to Rs 1,72,10,790-12-1 as follows, (1) By Deaths Rs 71,37,847-4-10 (2) by Maturity Rs 97,99,823-14-2 The Income for the year amounted to Rs 4,99,51,805-3-3 of which Rs 3,84,06,711-3-2 was derived from Premiums the excess over last year's premium Income being Rs 11,23,610-11-8 The outgo amounted to Rs 2,89,41,227-10-6 leaving a balance of Receipts over Disbursements of Rs 2,10,10,577-8-9 The ratio of expenses including commission to Premium Income during the year of accounts is 19.6 % as compared with 20.6 per cent in 1940 and 22.6 per cent in 1939

**Pandyan Insurance Co., Ltd**—During 1941, there was no claim in the fire revenue account. The fund increased to Rs 5,83,150 Regarding marine revenue account, claims amounting to Rs 400 were paid representing 24 per cent of the premium income The fund has been increased to Rs 11,00,000 and a balance of Rs 1,16,001 has been transferred to profit and loss account. In the workmen's compensation revenue account, claims amounted to Rs 2,212, representing 15.04 per cent of the premium income The balance of Rs 13,452 has been transferred to profit and loss account. The investment depreciation reserve has been increased to Rs 1,00,000

**Popular Insurance Company, Limited (Mangalore)**—During the year 1941, proposals for Rs 9,12,500/- were received Of these Policies assuring Rs 7,51,850/- were issued The total income for the year amounts to Rs 1,08,659-8-2 The percentage of expenses to premium income comes to 48.9 % The Life Assurance Fund at the year end totals Rs 2,30,954-11-9 The net interest earned on the mean Life Fund works to 4 % The investments in Government and Approved Securities amount to Rs 1,76,826 (cost price) Claims registered during the year Rs 16,183 Of these Rs 4,518-14-0 are outstanding Assets total Rs, 2,85,411-10-4

**Star of India Insurance Company, Limited (Lahore)**—During 1941, 147 proposals for assurance of Rs 3,87,850 were received, and 116

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policies assuring a sum of 2,90,900 were issued. The premium income (less reinsurance) during the year amounted to Rs 1,12,634-14 and the total income to 1,28,890-5-5. The total expenses of management were Rs 43,047-7-10. The expenses were Rs 8,500 less than those in the last year. The Life Fund stood at Rs. 2,76,899-10-3 at the beginning of the year, and in the end it stands at Rs. 3,26,087-11-10 showing an increase of Rs 49,188-1-7. On 31st December, 1940, Rs 25,762 were payable by the Company in claims. Fresh claims amounting to Rs 8,447 arose during the year, for Rs 4,203 by death and for Rs 4,244 by maturity. Out of this combined liability of Rs 34,209, claims for Rs 19,303 were settled during the year, leaving claims outstanding at the end of the year at Rs 14,906. Investment in Government Securities now stands at Rs 2,03,766-3-4.

**Swadeshi Bima Co. Ltd., Agra**—During 1941, the Expense Ratio of total expenses to total income leaving appreciation comes to 22.25 % as against 33.2 % of the last year and 51.4 % of the year before last. Interest yield is 18.38 % due to profits but excluding profit in our Mills it comes to 6.6 %. Security Deposit with the Reserve Bank Rs 2½ lakhs. Life Fund has swelled from 6 Lakhs to 8,00,000/- and the total Assets are over Rs 15 Lakhs.

**Tropical Insurance Company, Limited, Connaught Circus, New Delhi**—Life Department. During 1941, 1,142 proposals for an assurance of Rs 21,37,000 were received. 906 proposals assuring a sum of Rs 16,67,375 resulted into Policies with an annual premium income of Rs 1,43,872. Life Fund increased from Rs 10,31,640 to Rs 12,54,173. Claims under Policies by Death and Maturity (including provisions for claims due or intimated) have been Rs. 57,639 and Rs 25,759 respectively. Fire Department. Gross Premium amounted to Rs 2,31,760 and after deduction and reinsurance, the net Fire Premium amounted to Rs 1,04,955. The losses (claims paid and outstanding) come to Rs 7,427 which comes to 7.07 % of the net premium income. Fire Fund stands at Rs 67,171 which is 64 % of the premium income. Marine Fund stands at Rs 24,345. Accident & Miscellaneous Insurance Business. The gross premium amounted to Rs 49,675 and after deduction and reinsurance, the net premium amounts to Rs 45,041. The losses (claims paid and outstanding) come to Rs 18,328 which is 40.7 % of the premium income. Accident Fund now stands at Rs 17,837-2-9 which is about 39.6 % of the premium income.

**United India Life Assurance Co., Ltd.**—During 1941, 7,167 proposals were received for assurances amounting to Rs 1,49,19,549. 5,859 new policies amounting to Rs 1,17,51,097 were issued. The total assurances in force on 31st. December, 1941, including bonus additions, amounted to 6,71,82,877 of which Rs 4,65,625 is re-assured. 'The Policyholders' Trust Fund at the end of the year 1941 stood at Rs 1,57,88,477 as against Rs 1,37,71,400 at the beginning of the year. The total revenue amounted to Rs 39,14,832 from premiums, interest, and other fees. There were 523 claims for 9,43,498 out of which 267 death claims amounted to Rs 4,80,945.

**Western India Life Insurance Company, Ltd**—During 1941, 5,844 proposals were made for assuring sums amounting in the aggregate to Rs 80,03,795 and 5,155 proposals resulted in policies. The total new business effected amounted to Rs 68,73,149, the annual premium thereon being Rs 3,66,109 plus single premium of Rs 12,432. The Life Assurance Fund rose by Rs 16,81,933 to Rs 1,44,74,631. The investments as on 31st December, 1941, amounted to Rs 1,48,39,051 against the book value of Rs 1,33,31,919. The expense ratio was only 21.41 per cent as against 22.51 per cent for 1940.

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# COTTON MILL INDUSTRY

**T**HE textile industry is the biggest manufacturing industry of India absorbing the largest Indian capital and is mostly worked under the management of Indians. From a small beginning the industry has expanded considerably against tremendous odds and severe foreign competition. In 1940 there were 390 mills equipped with 9,961,000 spindles and 198,574 looms giving employment to 459,509 men. The total paid-up capital of the industry on the 31st August, 1941, amounted to Rs 44,77 lakhs as compared with Rs 43,62 lakhs and Rs 42,81 lakhs on 31st August, 1940, and 1939. Besides, there are quite a large number of hand looms working in the Indian villages. It is estimated by experts that there are in India intermittently at work 50,000,000 spinning wheels and about 2,500,000 hand looms, the output of which is estimated at about 1,900 million yds of cloth.

## GROWTH OF THE TEXTILE INDUSTRY.

The textile industry in India is of recent origin and is only a century old. The history of the cotton mill industry in India is one of slow growth in the infant stage which seems to have lasted for about half a century. The first cotton mill to start operation in India was the Bowreah Cotton Mills on the bank of the Hooghly river near Calcutta in 1817. It was conceived by the Englishmen and its successor is still in existence. In 1851 another mill was established by the English at Broach and in 1854 another was created at Bombay, with 20,000 spindles. The first Indian mill, however, was established in 1865 under the management of an enterprising Parsi gentleman named Mr Cowasji Mannabhoj Davar. Since that time the progress of the cotton mills has been very rapid. Reliable figures relating to this industry are wanting until 1866 in which 13 mills with 309,000 spindles and 3,400 looms were reported to have existed in the whole of India. The following table gives a comprehensive idea of the growth of the cotton mills in India since 1866 —

Year	No of Mills	Spindles	Looms
1866	13	309,000	3,400
1880	56	1,461,000	13,500
1899	156	4,046,100	36,600
1910	223	5,780,124	74,757
1920	253	6,763,000	119,000
1930	348	9,124,768	179,000
1931	340	9,500,000	186,000
1932	344	9,572,000	189,042
1933	352	9,613,000	194,988
1934	365	9,686,000	198,867
1935	379	9,857,000	200,062
1936	380	10,020,000	200,284
1937	370	9,781,000	197,810
1938	389	10,059,370	202,464
1939	388	10,005,785	200,076
1940	390	9,961,000	198,574

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In the infant stage the cloth woven by the Indian mills was plain and coarse and made up usually of counts under 24's but the bulk of their production was not cloth yarn of the lower counts which was consumed in India or exported to the Far East, where India held practically a monopoly of supply. Early in this century, however, the mills began to realise that, unless they extended their weaving section, there was little profit in spinning owing to the competition of Japan in the Eastern markets and the establishment of cotton spinning and weaving factories in those centres. Consequently, most of the Indian mills increased their looms and adopted the policy of producing more cloth than yarn. This change is visible in the actual production of cloth which increased almost three-fold between the years 1900 and 1915. The Swaraj movement also lent an impetus to the industry by creating increased demand for cloth and piecegoods made in India.

The present war has, however, contributed greatly towards the expansion of the industry. In the previous war period of 1914-18 India was not called upon to supply cloth in appreciable quantities for the Army and there was no serious cloth shortage except towards the end of the war. But at the very commencement of the present war it was apparent that Britain was hardly in a position to meet the cloth requirements of herself and the Empire, and India had thus to meet the textile requirements of the Indian Army and practically the whole of British Empire and the neutral countries in the Middle East. The mills had to work double and in some cases treble shifts. It is noted that no fewer than 168 different items of cotton textile materials required for the Defence Services are now being obtained from the mill and handloom industries. These include 32 items of cotton piecegoods, 10 items of khaki materials, 19 items of canvas goods, 14 items of tentage and allied articles, 26 items of fabricated cotton articles, 17 items of cotton waste ropes, cordages and allied products, and 20 items of cotton knitted goods, tapes, etc. More than 30 new types of fabrics are being manufactured, including such items as cellular shirting, an-man's shirting, mazri shirting, absorbent gauze, oil-dressed and anti-gas fabrics, cotton-rute union canvas, rubber hose, and rubberised double textile fabric.

#### MODERN DEVELOPMENT

Owing to the competition from artificial silk, the higher standard of living and the spread of civilisation, there has been an ever-increasing demand in the world for fabrics possessing better finish and appearance. This has often necessitated the spinning of textile materials, such as cotton, into finer counts. The same tendency has been in evidence in the Indian cotton mills. Statistics show that in 1926-27 these mills spun 515,000,000 lbs of yarn under 20's counts and only 39,000,000 lbs of yarns above 30's counts. Within the brief period of fifteen years in 1941-42 these figures stood at 950,000,000 lbs for yarns under 20's counts and 274,000,000 lbs for yarns above 30's counts. Thus whereas the production of yarn below 20's counts showed an increase of only 85 per cent, the production of yarn above 30's counts registered an increase of 600 per cent. This enormous increase in the relative proportion of the finer counts was made possible partly by the importations of foreign long staple growths, partly by the steady improvement in the quality of Indian cotton crop and partly by the adoption of such mechanical aids as better opening and cleaning, high draft system of spinning and the use of combing machines. Combing as an aid to improving the spinning quality of cotton has come more

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and more into use in the Indian mills as is shown by the installation of an increasingly large number of combing machines. This switch-over in production from coarse to fine goods also necessitated technical adjustment of machine. Hence when Indian mills had to supply Government orders for cloth which are considerably coarser than the average cloth produced by mills, they were put to great difficulties.

### CONSUMPTION OF COTTON.

The activity of the industry is reflected in the figure of cotton consumed. The consumption of raw cotton by the cotton mills in India during the year ending 31st August, 1942, amounted to 3,996,000 bales of 3½ cwt each. The consumption of Indian cotton in the Indian mills showed substantial improvement owing to less use of imported cotton. The consumption of cotton in the various provinces of India during the last five cotton years (from 1st September to 31st August) follows —

	1937-38	1938-39	1939-40	1940-41	1941-42
		(in 1,000 bales)			
Bombay Presidency	1,354	1,316	1,172	1,580	1,764
Bombay Island	783	750	634	982	1,058
Ahmedabad	346	346	305	341	415
Madras Presidency	418	481	507	526	591
United Provinces	288	356	349	381	427
C P & Berar	147	165	143	154	179
Bengal	92	91	111	135	117
Punjab & Delhi	95	133	165	172	176
Indian States	554	559	557	622	690
<b>TOTAL</b>	<b>2,994</b>	<b>3,151</b>	<b>3,050</b>	<b>3,617</b>	<b>3,996</b>

Tables relating to details of consumption of cotton by the important Indian States follow —

	1939-40	1940-41	1941-42
	(in 1,000 bales of 400 lbs)		
Hyderabad	68	73	84
Mysore	68	65	75
Baroda	66	92	91
Gwalior	87	96	94
Indore	120	139	149
Kathiawar States	44	50	61
Others & Pondicherry	103	108	137
<b>TOTAL</b>	<b>557</b>	<b>622</b>	<b>690</b>

The above table supplies a fair idea of the relative importance of the provinces as manufacturers of cotton goods. It will be seen that the consumption during 1941-42 has been a record one. Of this, 600,000 bales represented foreign cotton as against 663,000 bales in 1939-40.

### SEAT OF THE INDUSTRY

Since the middle of last century Bombay on account of its excellent shipping and railway facilities and business enterprise has dominated the cotton industry. It has been for many years the real seat of the cotton industry in India and still produces the greater part of the cotton goods. But an important tendency of the present day is the migration of the Indian mill industry to other centres of India. As a result of this, cotton mills are being erected at Ahmedabad, Lahore, Delhi, Baroda, etc., where they are close to the sources of supply of

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the raw material and to the up-country consuming markets and are also protected against foreign competition by the long railway lead from the ports. As matters now stand Ahmedabad has come to occupy the second place so far as textile manufacture is concerned. Other centres in the Bombay Presidency include Sholapur, Surat, Broach and Jalgaon. The other mills are distributed over many provinces and towns. The most important among them are Madras, Madura and Coimbatore in the Madras Presidency, Nagpur in the Central Provinces, Cawnpore in the United Provinces and the vicinity of Calcutta. The number of mills in Bombay City and Island is 64, in Ahmedabad 75, in Bombay Presidency excluding Ahmedabad and Bombay City 62, in the United Provinces 26, in Bengal 33, in Madras Presidency 63, in Central India 16, in Central Provinces 8, in Berar 4, in the Punjab 7, Rajputana 7; and in Bihar 2. There has recently been a tendency for the industry to push into the smaller towns in the cotton growing tracts.

#### DISTRIBUTION OF SPINDLES & LOOMS.

The number of spindles and looms in operation during the year ending 31st August, 1941, as compared with those during two preceding years follows —

	Spindles			Looms		
	1939	1940	1941	1939	1940	1941
	(figures in 1,000)			(figures in 1,000)		
Bombay Island	28.51	27.49	27.90	67.2	65.2	65.2
Ahmedabad	19.02	18.99	17.83	46.9	46.3	43.5
Bombay Presy (Rest)	12.64	12.74	12.49	26.8	26.6	26.1
U P	7.26	7.44	7.50	11.5	11.7	12.3
Madras Presidency	13.68	14.07	14.52	6.7	6.7	6.9
C P	3.23	3.00	3.02	5.8	5.3	—
C I	3.89	3.92	3.85	11.0	11.1	—
Bengal	4.41	4.53	4.59	10.0	10.3	10.6
Punjab	1.11	1.12	—	2.6	2.6	—
Hyderabad	1.24	1.20	—	2.1	2.2	—
Delhi	1.09	1.10	—	3.1	2.9	—
Mysore	1.65	1.63	—	2.6	2.7	—
Pondicherry	.89	.88	—	1.9	1.9	—

#### COMPARATIVE TABLES OF YARNS & PIECEGOODS PRODUCTION.

A comparative table of the production of cotton twist and yarn, grey and bleached and coloured piecegoods in the chief centres of production in India for the years 1935-36 to 1941-42 follows —

##### Twist and Yarn.

	1935-36	1936-37	1937-38	1938-39	1939-40	1940-41	1941-42
	(in million lbs)						
Bombay Island	305	277	331	367	290	354	{ 6,70.6
Ahmedabad	166	163	184	196	180	185	
Bombay Presidency	549	513	592	648	557	627	776
Madras	113	130	136	169	174	193	204
Bengal	41	38	38	46	48	58	59
U P	108	115	107	118	125	134	154
Ajmer-Merwara	10.4	8.6	12.2	15.1	13.3	12.2	14.4
Punjab	7.1	9.0	9.9	15.7	15.6	18.4	21.4
Delhi	25.2	26.0	25.5	30.9	35.6	35.8	38.3
C P	46.4	47.6	52.5	59.6	61.4	54.8	64.0
Bihar	—	—	0.8	2.8	2.5	3.9	3.9

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# 272 INDUSTRY YEAR BOOK & DIRECTORY, 1943

	1935-36	1936-37	1937-38	1938-39	1939-40	1940-41	1941-42
			(in million lbs)				
Sind	—	—	0 4	—	—	—	1 0
Indian States	155	164	185	199	202	212	241
<b>TOTAL</b>	<b>1,058</b>	<b>1,054</b>	<b>1,161</b>	<b>1,303</b>	<b>1,234</b>	<b>1,349</b>	<b>1,337</b>

The following table gives the quantity of the various counts of yarns produced in the Indian mills during 1941-42 —

	Nos 1 to 10	Nos 11 to 20	Nos 21 to 30	Nos 31 to 40	Nos. 41 & above	Waste	Total
							(in million lbs)
Ahmedabad	2 4	78 3	49 7	34 6	36 9	—	201 9
Bombay Island	50 7	229 4	102 3	54 4	30 3	1 7	468 7
Bombay Presidency	68 9	359 3	178 8	96 9	70 7	1 7	776 4
Madras	2 6	97 4	42 8	47 8	19 4	4 2	204 3
Bengal	5 9	21 6	14 8	5 0	5 1	6 4	58 9
U P	20 5	90 2	32 7	6 1	1 0	4 4	153 9
Ajmer-Marwara	7 0	6 9	0 6	—	—	—	14 4
Punjab	7 6	12 1	1 4	0 1	—	0 2	21 4
Delhi	6 0	28 3	3 0	0 2	0 4	0 5	38 3
C P & Berar	12 2	39 6	8 1	2 3	0 6	1 2	64 0
Bihar	0 6	1 0	1 9	0 5	—	0 9	3 9
Sind	0 8	0 2	—	—	—	—	1 0
Indian States	20 4	150 9	49 0	12 7	7 0	0 7	240 6
<b>Total</b>	<b>152 3</b>	<b>797 4</b>	<b>333 1</b>	<b>171 8</b>	<b>103 3</b>	<b>19 3</b>	<b>1577 1</b>

## Grey & Bleached Piecegoods.

The following two tables give the quantity and length of grey and bleached and coloured piecegoods during 3 years ending 1941-42 —

	1939-40	1940-41	1941-42	1939-40	1940-41	1941-42
	(in million lbs)			(in million yds)		
Ahmedabad	121	124	126 6	664	706	721
Bombay Island	202	225	264 5	999	999	1,067
Bombay Presidency	363	390	439	1,823	1,861	1,964
Madras	10 2	13 5	14 5	37 8	47 6	54 1
Bengal	38 7	40 5	39 3	185 3	194 4	185 5
U P	66 3	77 7	82 4	263 5	278 0	284 9
Ajmer-Marwara	6 6	6 4	6 4	23 7	23 7	23 1
Punjab	15 4	15 3	15 4	56 1	55 2	57 4
Delhi	22 2	25 8	24 7	88 2	84 0	77 8
C P & Berar	20 6	19 8	24 1	73 6	67 5	77 9
Bihar	1 9	3 2	3 6	7 6	11 6	14 7
Indian States	128 6	135 5	146 6	528 2	542 5	570 9
<b>TOTAL</b>	<b>673 3</b>	<b>728</b>	<b>796</b>	<b>30,86</b>	<b>3165 4</b>	<b>3310 2</b>

## Coloured Goods.

	1939-40	1940-41	1941-42	1939-40	1940-41	1941-42
	(in 1,000 lbs)			(in 1,000 yds)		
Ahmedabad	53,621	63,571	51,996	357,458	442,419	363,502
Bombay Island	46,400	65,020	103,967	243,155	309,197	431,172
Bombay Presidency	114,693	146,397	177,796	668,331	834,944	893,499
Madras	12,844	20,672	21,906	39,667	50,990	55,059
Bengal	1,162	1,179	2,222	4,742	5,784	8,910
U P.	2,078	2,419	2,819	8,320	8,090	8,803

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	1939-40	1940-41	1941-42	1939-40	1940-41	1941-42
	(in 1,000 lbs)			(in 1,000 yds)		
Ajmer-Merwara	105	143	223	733	909	1,290
Punjab	2,391	2,663	3,099	10,589	9,423	11,822
Delhi	1,944	1,533	1,509	10,726	7,751	7,343
C_P & Berar	3,517	4,114	5,384	11,591	14,202	17,344
Bihar	45	61	35	125	169	90
Indian States	35,251	34,778	39,356	171,997	171,973	179,221
<b>TOTAL</b>	<b>174,031</b>	<b>213,961</b>	<b>254,349</b>	<b>926,211</b>	<b>1,104,055</b>	<b>1,183,332</b>

**PRODUCTION & IMPORTS OF YARN.**

The following table compares the production of yarns and imports of same during the last few years —

	Production (in 1,000 lbs)	Import
1926-27	807,116	49,425
1927-28	808,940	52,945
1928-29	648,283	43,766
1929-30	833,542	43,882
1930-31	867,279	29,140
1931-32	966,373	31,575
1932-33	1,016,422	45,103
1933-34	921,061	32,055
1934-35	1,000,756	34,013
1935-36	1,055,616	42,621
1936-37	1,050,601	27,098
1937-38	1,160,716	21,998
1938-39	1,303,246	36,459
1939-40	1,234,873	41,132
1940-41	1,349,156	19,335
1941-42	1,577,178	

The following figures illustrate the quantities of yarn spun under the several broad grades —

	Pre-War	1935	1936	1937	1938	1939	1940	1941
	Average	-36	-37	-38	-39	-40	-41	-42
Nos 1 to 20	479	590	589	609	688	669	772	950
Nos 21 to 30	146	288	269	303	341	311	312	333
Nos 31 to 40	19	112	123	152	168	157	159	172
Above 40	3	59	62	85	92	82	88	103
Waste	5	61	84	112	145	155	17	19

**PRODUCTION OF PIECEGOODS.**

Productions of cotton piecegoods are classified under two broad groups — Grey and bleached piecegoods and coloured pieces. These are again subdivided into a number of well-known types. The figures of production under each of these heads produced in Indian mills including the Indian States for the few years are given below —

	Grey and Bleached		Coloured		Total	
	(figures in million)					
	lbs	Yds	lbs	Yds.	lbs	Yds
1924-25	325	1,382	126	588	451	1,970
1925-26	339	1,414	117	540	456	1,954
1926-27	382	1,577	145	681	527	2,259
1927-28	403	1,675	148	682	557	2,357

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	Grey and Bleached		Coloured		Total	
	(figures in million)					
	lbs	Yds	lbs	Yds	lbs	Yds
1928-29	331	1,410	117	484	433	1,893
1929-30	422	1,815	126	605	548	2,419
1930-31	460	2,003	117	558	578	2,561
1931-32	520	2,311	139	679	659	2,990
1932-33	532	2,423	151	747	683	3,170
1933-34	496	2,265	138	680	634	2,945
1934-35	571	2,641	147	756	718	3,397
1935-36	588	2,773	153	798	741	3,571
1936-37	605	2,762	155	810	782	3,572
1937-38	667	3,191	169	894	864	4,084
1938-39	714	3,337	178	932	892	4,269
1939-40	673	3,086	174	926	847	4,012
1940-41	728	3,165	214	1,104	942	4,269
1941-42	796	3,310	254	1,183	1,050	4,493

The table shows that the production of either class of piecegoods has received further impetus in 1941-42 due to increased demand in the country for defence purposes and to contracted imports from foreign countries for shipping difficulties

A detailed statement of the quantity in pounds and their equivalent in yards, and descriptions of woven goods produced in the Indian mills during the last few years follows —

		1936	1937	1938	1939	1940	1941
		37	38	39	40	41	42
Grey & Bleached		(figures in million)					
Chadars	{ lbs	26 7	27 6	30 7	28 0	25 9	24 4
	{ Yds	65 9	67 0	74 6	70 6	61 9	56 4
Dhuties	{ lbs	219 8	227 9	279 3	241 1	212 2	173 2
	{ Yds	1,117 7	1,215 3	1,454 8	1,230 3	1,101 4	921 1
Drills and Jeans	{ lbs	35 8	39 3	35 2	31 4	55 6	79 0
	{ Yds	136 5	152 9	135 2	122 3	187 8	234 9
Cambrics	{ lbs	16 0	24 5	20 3	23 0	29 3	31 4
	{ Yds	123 8	192 9	169 9	188 5	259 0	277 0
Printers	{ lbs	2 9	4 7	3 2	3 3	2 6	2 7
	{ Yds	14 7	23 3	16 7	16 7	15 4	15 1
Shirtings & L-Cloth	{ lbs	194 9	226 1	224 7	221 2	205 4	240 9
	{ Yds	900 7	1,084 8	1,040 1	1,011 6	969 0	112 5
T-Cloth Domestics & Sheetings	{ lbs	45 2	48 0	50 3	51 6	53 1	64 9
	{ Yds	175 5	191 3	183 2	173 2	181 2	217 8
Tent Cloth	{ lbs	4 0	5 3	5 4	11 2	57 3	56 6
	{ Yds	9 7	12 2	14 2	26 5	116 1	111 9
Khadi, Dungi	{ lbs	39 7	38 6	36 8	32 0	26 2	23 8
	{ Yds	126 4	126 6	118 3	102 9	83 3	73 9
Other Sorts	{ lbs	19 6	25 2	27 9	30 5	60 2	99 3
	{ Yds	95 8	134 4	132 1	143 8	190 3	289 6
TOTAL	{ lbs	604 5	667 2	713 8	673 3	728 4	795 9
	{ Yds	2,761 8	3,190 6	3,337 1	3,086 3	3,165 4	3,310 2

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		1936	1937	1938	1939	1940	1941
		-37	-38	-39	-40	-41	-42
		(figures in million)					
<b>Coloured.</b>							
Coloured piece-goods	lbs	154.7	169.2	178.4	174.0	214.0	254.3
	Yds	810.2	893.6	932.1	926.2	1,104.1	1,183.4
Grey coloured goods other than piecegoods	lbs	5.1	6.2	6.5	6.4	7.1	10.2
	Doz	1.2	1.5	1.4	1.6	2.1	3.1
Hosiery	lbs	6.5	7.5	7.5	7.9	9.0	10.8
	Doz	2.1	2.4	2.4	2.6	3.2	3.2
<b>Miscellaneous</b>							
Cotton goods mixed with silk & wool	lbs	5.6	6.0	7.2	7.5	11.0	14.6
	lbs	5.9	8.2	7.1	8.8	12.2	7.5
GRAND TOTAL	lbs	782.3	864.2	920.5	877.8	981.9	1,093.4
	Yds	3,572.0	4,084.3	4,269.3	4,012.5	4,269.3	4,493.6
	Doz	3.3	4.0	3.8	4.3	5.2	6.4

**HAND-LOOM INDUSTRY**

Though authoritative statistics are not available, the number of hand-looms appears to be not less than 2,500,000 and the number of persons wholly or partly dependent on the industry must be in the neighbourhood of ten millions, whereas the cotton weaving mills in India employ 459,000 men only. This industry is responsible for about 46 per cent of the total cloth produced in India and about 37 per cent. of the total annual consumption of cloths.

Estimated production of handloom production during 1939-40 was 1,810 million yds as against 1,920 million yds in 1938-39 and 1,490 million yards in 1937-38.

**EXPORTS OF INDIAN COTTON GOODS.**

Cotton twists and yarns and piecegoods as well were formerly exported in big quantities to Far Eastern markets where India held practically a monopoly of supply but the exports recorded gradual decreases due to loss of these markets.

**Cotton Twist & Yarn.**

Detailed figures of exports of cotton twists and yarns by counts are —

	1937-38	1938-39	1939-40	1940-41
		(in 1,000 lbs)		
Nos 1 to 20	31,923	27,628	27,450	46,608
Nos 21 to 40	5,820	7,639	6,976	23,504
Above No 40	676	809	409	1,251
Double folds	424	305	73	1,497
Unspecified	1,281	1,579	2,035	4,857
<b>TOTAL</b>	<b>40,124</b>	<b>37,960</b>	<b>36,943</b>	<b>77,723</b>
Value of exports (in lakhs of Rs)	203	188	179	409

The exports of cotton yarns however have again marked a sharp rise in recent years. While in 1939-40 the exports were estimated at 37

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## 276 INDUSTRY YEAR BOOK & DIRECTORY, 1943

million lbs these amounted to 78 million lbs. in 1940-41 registering a rise by about 100 per cent During 1941-42 exports showed a sharp rise to 91 million lbs and were valued at Rs 738 lakhs

### Piece-Goods.

The exports of piecegoods made in India had been falling off considerably, partly due to growing competition in the markets where India formerly sold her goods and partly due to the establishment of textile mills at those places to meet the local demand A welcome improvement is in evidence since the outbreak of the present war The following table shows the exports of grey, white and coloured goods —

	1935	1936	1937	1938	1939	1940
	-36	-37	-38	-39	-40	-41
	(in million yards)					
Grey	8.9	23.2	90.3	68.6	79.9	125
White	1.3	4.6	15.7	10.2	13.8	54
Coloured	61.1	73.8	135.2	98.2	128.0	210
<b>TOTAL</b>	<b>71.2</b>	<b>101.7</b>	<b>241.3</b>	<b>177.0</b>	<b>221.4</b>	<b>390</b>

Value of exports

(in lakhs of Rs ) 2,03 2,63 6,50 4,79 6,11 10,64

779 million yards of piecegoods were exported in 1941-42 and were valued at Rs 26,51 lakhs

It will be observed that concurrently with the increase in the cotton mill production exports of cotton piecegoods also improved in 1941-42 by 100 per cent in quantity over those of the preceding year Bombay as usual had the bulk of the trade in 1940-41 and accounted for 78 per cent of the total exports while Madras has 118 per cent as compared with 66 per cent and 31 per cent, respectively in the preceding year

### Cotton Goods.

The total value of cotton yarns and manufactures exported from India during 1941-42 and previous years follow:—

	1935	1936	1937	1938	1939	1940
	-36	-37	-38	-39	-40	-41
Value of exports						
(in lakhs of Rs )	3,78	9,29	7,12	8,58	16,49	36,07

### IMPORTS OF COTTON GOODS.

The value of the different classes of imported cotton manufactures during the last few years is set forth below —

	1937-38	1938-39	1939-40	1940-41	1941-42
	(in lakhs of rupees)				
Piecegoods					
Grey	1,90	3,07	2,83	2,33	1,05
White	4,18	3,30	2,84	2,05	1,12
Coloured	5,62	3,90	3,98	3,70	2,28
Twist & Yarn	2,51	2,93	3,52	2,18	1,24
Hosiery	29	18	12	18	16
Handkerchief	10	4	5	13	—
Thread	52	46	43	54	29
<b>TOTAL</b>	<b>15,55</b>	<b>14,15</b>	<b>14,05</b>	<b>11,35</b>	<b>6,79</b>

### Cotton Twist and Yarn.

Detailed figures of imports of cotton twist and yarn by counts follow —

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	1937-38	1938-39	1939-40	1940-41
		(in 1,000 lbs)		
Nos 1—20	268	618	844	1,622
Nos 21—30	466	288	209	106
Nos 31—40	2,582	5,948	3,199	785
Above No 40	4,327	5,548	7,318	2,387
Two-folds	14,337	24,039	29,547	13,219
Unspecified	18	18	15	1,216
<b>TOTAL</b>	<b>21,998</b>	<b>36,459</b>	<b>41,132</b>	<b>19,335</b>

**Piecegoods.**

The quantities of piecegoods imported follow —

	1937	1938	1939	1940
	-38	-39	-40	-41
		(in million yds)		
Grey	133	258	236	172
White	202	179	134	97
Coloured	256	210	210	178
<b>TOTAL</b>	<b>591</b>	<b>647</b>	<b>579</b>	<b>447</b>

Value of imports (in lakhs of Rs)	11,70	10,27	9,65	8,08
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During 1941-42, 181.5 million yds of piecegoods were imported and were valued at Rs 4.45 lakhs.

The improved situation during 1941-42 was mainly due to the war conditions in the West and in the East which opened new export outlets for Indian textiles and stabilized the older ones. With this the Indian textile industry secured, as it were, the entire monopoly for the duration of war to feed the home market as well as the adjoining markets which are referred to as the Eastern Group of Nations.

**PROBLEM OF CLOTH IN INDIA.**

The problem of cloth in India is a development from the inception of the present war. With the march of time the tempo of this problem has risen culminating in the present shortage of cloth and the resultant steep rise in prices of this commodity. Cloth supplies from U K to India have practically dried up and Japan is completely out of the picture. In this connection some statistical data giving the available supplies of, and demand for cloth in India in 1941-42, may be cited. On the supply side, the production of cloth in India was thus — by mills 4,493.6 million yards, by handloom 2,000.0 million yards and by imports 181.5 million yards. On the demand side, 864.6 million yards and 121.0 million yards were exported by sea and land respectively, and 1,000.0 million yards of cloth were taken over by the Supply Department of the Government of India. The total demand thus amounted to 1,985.6 yards leaving 4,689.5 yards available for consumption. But the estimated civilian consumption in 1941-42 stood at 6,000 million yards of cloth. It is very likely that large surplus stocks of cloth amounting to about 555 million yards upto 1938-39 must have lasted well into the fiscal year 1941-42, which did prevent the abnormal shortage of cloth on that year to some extent.

A closer examination of the position of cloth in the year 1942-43 reveals that the stocks of cloth must have deteriorated definitely for the following reasons — First, the increasing demand for cloth by the Supply Department, Secondly, the absence of any surplus stocks from

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previous years, and thirdly, the setback in production caused by strikes in important manufacturing centres. The position during 1942-43 can be estimated thus—On supply side the estimated production of cloth by mills will amount to 4,500 million yards and by handlooms 2,000 million yards, 50 million yards may be available from imports, thus making the total supply of cloth 6,550 yards in 1942-43. On the demand side the Supply Department is expected to require 1,200 million yards. Exports by sea and land will amount to 1,000 million yards and 150 million yards respectively. The estimated civil consumption remaining at 6,000 million yards, the shortage will stand at 1,800 million yards of cloth.

There are factors such as scarcity of transport facilities and a substantial hoarding demand for cloth which may aggravate the problem of cloth shortage in India. If the situation is not eased early, it is bound to have serious repercussions in the country causing considerable hardship to the people and might even impair the future prospects of the industry itself.

In order to find out a solution of this present impasse in cloth shortage the production of textiles both by mills and by the handloom weavers should be raised, switching over the production as far as it is technically possible of such categories of cloth as are used by the poor and the middle classes, from those commonly used by the richer class of people—specially because the requirements of the Supply Department are in many respects for those types of cloth which are commonly used by the masses. For this purpose it may be necessary (1) to reduce the number of picks, (2) to weave, wherever possible, to the fullest breadth permitted by the reeds, (3) to eliminate manufacture of luxury goods and concentrate on the essential needs of the country, (4) to increase the efficiency of labour. The handloom weavers have been experiencing the difficulties in getting their requirements of yarn at reasonable price and as a result of this the handloom production of cloth is liable to suffer to some extent. The Government can make matters easy by securing the requirements of the handloom weavers direct from the mills by paying a reasonable price and distribute the yarns to the handloom weavers through Provincial Governments.

There are some other necessities which should be taken principally by the Government in co-operation with the cloth trade and also with the industry. The most important among these steps will be to put an embargo on exports of cloth which have met a phenomenal expansion lately or to reduce exports to the minimum level possible. Besides this, the Government should effect all possible economy in the consumption of cloth by the army by introducing substitutes such as made of jute and other fibres, should adopt suitable measures to control the price of cloth, resort to rationing of the same and stop black markets. The suggestions envisaged and formulated above, if followed, may to a large extent avert the present crisis of cloth in India.

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# JUTE MILL INDUSTRY

**T**HE development of the jute industry in India dates back to the latter part of the eighteenth century. In India it has been in long use as its references in early literature would amply prove, but then the demand for the article did not justify its wide cultivation. With the intercourse of the East and the West and the development of international trade, there sprang up a natural demand for cheap wrapping or containing material to transport goods from one place to another and to ship them abroad.

The peculiar geographical and climatic position of Eastern Bengal and Assam have enabled them to command a virtual monopoly in jute production. No country, it is believed, can monopolise an article in a sense Bengal and Assam do in respect of jute. Ardent endeavours have been made in foreign lands in various parts of the tropics, notably in the Nile Valley, Nigeria, Sierra Leone and in many parts of Africa, in Java and French Indo-China, but Bengal and Assam have been the only provinces in which the cultivation of jute has been a commercial success.

## IMPORTANCE OF THE JUTE INDUSTRY.

Jute and jute manufactures figure pre-eminently in the foreign trade of India, which annually amounts to several crores of rupees. Jute, both raw and manufactured, forms one of the chief commodities of export. Bengal is celebrated for its jute textile industry concentrated in the assembly of 95 large mills on the banks of the Hooghly. Besides, there are 3 mills in Bihar and Orissa, 4 in the Madras Presidency and 2 in the United Provinces. This extensive and valuable industry with an investment of 19.97 crores of rupees and £2.5 million sterling exclusive of the reserve funds which have accumulated to huge figures has been mainly built up by British commercial enterprise, though of late Indian industrialists, have come forward to stake a share. Of 104 jute mills in India, only a few are entirely owned and under the management of Indian companies, most important of which are the Birla, Hukumchand, Adamjee, Gagalbhai, Hanuman, Premchand and Jugglal Kamlapat. The rest are still managed mostly by famous Scottish concerns associated with the industry from the early days, there being only 3 mills under American management.

The jute textile industry employs about 3 lakh persons. The industry is practically confined to a single locality. Excluding four mills in the Madras Presidency, where a fibre differing from jute is grown three in Bihar, and two in the United Provinces, the jute mills lie in a small strip of country above and below Calcutta. It is usually on a much bigger scale than the cotton mill, the number of operatives employed in a single mill being three times as great as in the latter cases. The number of spindles in operation during 1936-37 was 1,300,000.

## GROWTH OF THE JUTE MILL INDUSTRY.

Up to the middle of the last century the Bengal hand-loom jute industry possessed such vitality that the export of jute fabrics from

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Calcutta exceeded that of raw jute in quantity. Jute was then woven also on the power-looms of Dundee which imported the raw material from Calcutta. But in 1855, the first jute mill was started in India at Rishra and soon after jute mills sprang up rapidly in and around Calcutta.

The development of the jute mill industry has been rapid since the beginning of the present century. This can be explained on the basis of the growing international trade at this period. The primary industries such as wheat, grains, sugar, cotton, oil seeds, etc., all found themselves in a thriving condition and along with this there was a considerable expansion of the international trade in manufactured goods. This stimulated keen demand for jute bags and cloth. To cope with this demand, the capacity of the existing mills was not only strengthened by increasing the number of spindles and looms but also a number of new mills were started.

For many years Indian mills were content to restrict their activities to the manufacture of standard sizes of hessian cloth and standard makes of bags. In recent years more attention has been paid to what are known as specialities and Indian mills are now turning out canvas, linoleum hessian, webbing, felting, etc. A development resulting from the war is the production of a union canvas made of cotton warp and jute weft. Other experiments are in progress and the Indian Jute Mills Association a few years ago set up a Research Department where problems connected with manufacture such as rot-proofing, water-proofing, etc., are receiving the attention of experts. Some years ago the Government of India set up a body known as the Indian Central Jute Committee and it has also established a Laboratory for Technological Research in Calcutta as well as an Agricultural Research Centre at Dacca.

### PRODUCTION.

The Chief products of the jute mills are Twist and yarn, Gunny cloth, Hessian cloth, Gunny bags, Hessian bags. A coarse kind of jute textile called jute canvas, rope, twines, etc., for cordage are also sometimes manufactured by these mills.

In spite of numerous vicissitudes and crises which occasionally retarded the steady progress of the jute industry, the production of jute goods during 1942, considered on the whole, was satisfactory and recorded an increase of 85,500 tons in comparison with 1941. The output of jute goods during the year under review was greater than either in 1941 or 1940. The production of such during 1942 aggregated 12.09 lakh tons, as compared with 11.13 lakhs tons in 1941 and 11.55 lakhs tons in 1940. It is estimated that the output of non-member mills (jute mills outside the orbit of the Indian Jute Mills' Association) would amount to 60,000 to 70,000 tons per annum. In 1942, the highest production was recorded in the month of April, when such amounted to 1,07,200 tons, and the lowest on record was in October, when it touched 90,833 tons. The average monthly production for the last three years was 96,319, 92,792 and 1,00,756 tons respectively.

The production of jute goods manufactured on Government account discloses marked decline during December, 1942. As against 21,167 tons produced in November, the December output aggregated 16,732 tons only, indicating a recession of 4,435 tons. The production of jute goods on Government account in December was the lowest on record since April last, when such amounted to 15,117 tons. Almost all the items produced on Government account were lower in December.

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than in the preceding month, except scrim cloth which even increased slightly from 4,333 tons to 4,501 tons.

Mills continued to work sixty hours per week but, in May, there was a reduction to 54 hours per week with 10 per cent of the looms sealed. A gloomy future of export markets threatened the manufacturers of jute goods owing to the difficulties regarding the shipping position and the depredations of the Japanese in the Indian ocean. With the uncertain behaviour of the raw jute market, the jute manufactures market also met a set back during October, November and December as will be found from the following monthly figures of production of jute goods in India, compiled by the Monthly Survey of Business Conditions in India

	1941 (in 1,000 tons)	1942 (in 1,000 tons)		1941 (in 1,000 tons)	1942 (in 1,000 tons)
January	79.9	105.3	July	115.3	102.8
February	90.3	100.0	August	95.7	99.4
March	75.6	88.5	September	95.6	101.9
April	100.7	107.2	October	105.7	90.8
May	93.8	98.0	November	113.7	101.7
June	88.4	95.7	December	115.7	98.5

The following table shows the exports of raw jute and jute products and the consumption of raw jute in India during the last five years —

	Exports of raw jute	Exports of sacking bags & cloth	Exports of hessian bags & cloth (in 1000 tons)	Consumption in India
1936-37	821	519	488	1,082
1937-38	747	523	478	1,194
1938-39	690	488	451	1,112
1939-40	570	511	546	1,288
1940-41	243	455	464	989

The above figures are for the jute season July-June

It will be observed that while the exports of raw jute have been on a downward course, the consumption of raw jute in India has gone higher except in 1940-41 when this received a setback

#### EXPORT FIGURES.

The figures for export and the values realised therefrom of the chief jute manufactures during the last few years will be interesting —

Quantity of Exports						
	1935-36	1936-37	1937-38	1938-39	1939-40	1940-41
<b>Jute Bags</b>						
Hessians	1.12	1.44	1.33	1.43	7.46	2.84
Sackings	3.47	4.24	4.80	4.55	4.65	3.94
<b>Jute Cloth.</b>						
Hessians	11.82	1.669	1.600	1.507	1.515	1.500
Sackings	36	39	44	42	46	46
Value of Exports.						
<b>Jute Bags</b>						
Sackings	8.99	9.78	11.10	10.45	16.77	15.89
Hessian	2.03	2.31	2.07	2.00	8.66	4.42
<b>Jute Cloth</b>						
Sackings	50	47	52	51	87	92
Hessian	11.74	15.00	14.85	12.83	21.53	23.24

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# 282 INDUSTRY YEAR BOOK & DIRECTORY, 1943

The following tables give details of exports of jute gunny bags and cloth to different countries during three years ended 1940-41 —

Bags	1938-39	1939-40	1940-41
	(in lakhs of bags)		
United Kingdom	753	6,857	2,115
Egypt	220	238	482
South Africa	282	385	363
East Africa	307	367	234
Australia	788	871	940
Far East	1,919	1,591	1,084
S America	218	188	207
C America	320	335	317
	(in lakhs of yards)		
Cloth			
United Kingdom	1,713	2,603	2,039
Canada	887	1,341	1,017
Australia	310	412	365
U S A	8,413	7,645	8,719
Argentine Republic	2,909	2,169	2,100

## WORLD CONSUMPTION OF JUTE IN 1941-42

It is estimated that the world consumption of jute in 1941-42 was 88 lakh bales, as against 79 lakh bales in the previous season or an increase of 11 per cent. The higher consumption in 1941-42 is attributed to the greater demand of jute from Government. The following gives the estimates of the world jute consumption for the last five seasons (July-June)—1937-38—112 5 lakh bales, 1938-39—110 3 lakh bales, 1939-40—112 8 lakh bales, 1940-41—79 0 lakh bales, 1941-42—87 9 lakh bales. The village consumption of jute is estimated at 6 lakh bales.

Total exports of raw jute for 1941-42 season amounted to 2 74 lakh tons as compared with 2 41 lakh tons during the previous season, while exports of jute manufactures in 1941-42 aggregated 8 17 lakh tons as against 8 21 lakh tons in 1940-41 season. In 1941-42, India must have required about 21 lakh bales of raw jute of which 11 lakh bales of jute were consumed for war purposes.

## PRESENT POSITION OF JUTE.

An analytical review of the present slump in the jute market will point to the fact that the scarcity of freight has restricted the free flow of even an essential war material such as jute goods. The shipping shortage became more perceptible during the later half of 1942 and, with the closing of the Calcutta Port temporarily for normal shipping during that period, a considerable handicaps was placed on the transport of jute goods to the United States. As a result, the consumption of hessian goods in U S A steadily declined. During 1942, U S A consumed only 422 million yards of hessians as compared to 713 million yards in 1941. In fact, the total consumption of hessians in U S A in 1942 was the lowest on record during the last decade and a half—even in the year 1932—the worst depression year—476 million yards of hessians were consumed. But one redeeming feature is the remarkable increase in stocks afloat and with the safe arrival of these goods in U S A, there will be a higher consumption of hessians in the coming months.

For experimented formulas for damp proofing matches consult SAFETY MATCHES AND THEIR MANUFACTURE" Rs. 3. Industry, Calcutta

# AGRICULTURAL RESOURCES IN INDIA

**E**XTENSIVE fertile tracts watered by a net-work of rivers and canals render India traditionally an agricultural country. Her frame as a producer of enormous stores of raw materials spreads to far off countries. Over and above this India possesses practical monopoly of production so far as certain commodities are concerned.

## JUTE

The jute fibre for which India holds the monopoly, is cultivated and produced almost entirely in the Ganges Brahmaputra delta. The fibre, which is obtained from the hibiscus and is known as Deccan hemp or Bimlipatam jute, is, for statistical purposes, included under the term jute, and is produced in the Madras Presidency. Jute is generally sown from March to May and harvested from July to September.

The area under cultivation of jute and the estimated yield follow —

	1937	1938	1939	1940	1941	1937	1938	1939	1940	1941
	(Area in 1,000 acres)					(Yield in 1,000 bales)				
Bengal	2,203	2,521	2,550	50,02	1,589	7,072	5,755	8,321	11,631	4,329
Bihar	145	315	265	282	243	921	461	720	586	429
Orissa	15	25	22	28	25	33	585	47	52	59
Assam	198	283	323	356	304	593	570	660	919	659
Total	2,861	3,164	3,160	5,669	2,160	8,618	6,844	9,646	13,186	5,474

The estimated area under jute cultivation in 1942 is 27,64,950 acres and the total yield is placed at 90.14 lakh bales.

Figures of exports of raw jute follow —

	Pre-war average	1938	1939	1940
		-39	-40	-41
		(in 1,000 bales)		
United Kingdom	952	1,012	1,094	531
British Empire (Rest)	5	19	32	29
United States of America	483	174	234	256
France	357	426	478	117
Italy	180	258	153	29
Brazil	79	138	193	65
Japan	60	83	76	53
Belgium	174	285	185	5
Spain	132	63	90	97
	3,102	3,866	3,191	1,362
Value of the exports in lakhs of Rs	1,953	1,339	1,983	785

## COTTON.

India is one of the biggest cotton producing countries of the world, being second only to the United States of America. A striking feature connected with the cotton crop of India is the rapidity with which its

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## 284 INDUSTRY YEAR BOOK & DIRECTORY, 1943

area has extended Since the beginning of this century the area under cotton has increased considerably as a result of the world's increasing demand for it There has been remarkable extension of area under cotton through irrigation in Northern India as well as in the Central Provinces and there appears to be the promise of a much greater increase in the production of Indian cotton of good quality in the extreme South of the Peninsula

### Acreage and Yield.

Cotton is grown all over India. The area under cotton and yield during the last few years are shown under each province —

	1939- 40.	1940- 41.	1941- 42	1939- 40	1940- 41.	1941- 42
	(Area in 1,000 acres)			(Yield in 1,000 tons)		
Bombay	5,263	5,700	5,700	959	1,087	1,093
C P & Berar	3,270	3,572	3,702	721	901	963
Punjab	3,293	3,390	3,612	1,291	1,621	1,628
Madras	2,222	2,441	2,541	455	534	560
Sind	903	974	984	334	360	361
United Provinces	496	402	434	150	148	106
Bengal	93	108	107	30	33	29
Assam	34	41	38	14	16	13
Bihar	42	40	41	8	8	8
Ajmer-Merwara	12	31	28	4	11	10
N W. F Province	17	18	16	3	4	3
Orissa	8	8	8	1	1	1
Delhi	2	1	1	—	—	—
Hyderabad	3,188	3,458	3,283	503	547	540
Central India	1,037	1,134	1,147	119	231	201
Baroda	738	811	802	196	175	227
Gwalior	516	566	562	54	109	119
Rajputana	362	433	425	55	104	106
Mysore	84	88	89	12	13	12
<b>TOTAL</b>	<b>21,580</b>	<b>23,286</b>	<b>23,547</b>	<b>4,909</b>	<b>5,903</b>	<b>5,980</b>

A statement showing the present estimates of area and yield classified according to the recognised trade descriptions of cotton is given below, together with similar details of the corresponding estimates (revised) of last year —

### Trade Descriptions.

	Area in 1,000 Acres		In 1,000 Bales of 400 lbs each		Yield per acre (lbs)	
Descriptions of Cotton	1941- 42	1940- 41	1941- 42	1940- 41	1941- 42	1940- 41.
<b>Bengals—</b>						
U P. Desh	494	465	116	159	94	137
Punjab Desh	1,669	1,651	599	805	144	195
Sind Desh	96	308	38	114	158	148
Rajputana Desh	395	403	110	107	111	106
<b>TOTAL</b>	<b>2,654</b>	<b>2,827</b>	<b>863</b>	<b>1,185</b>	<b>130</b>	<b>168</b>
<b>Americans—</b>						
Sind-American	888	666	323	246	145	118

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Descriptions of Cotton	Area in 1,000 Acres		In 1,000 Bales of 400 lbs each		Yield per-acre (lbs)	
	1941-42	1940-41	1941-42	1940-41	1941-42	1940-41
Punjab-American Buri	1,959	1,757	1,032	820	211	187
	60	46	15	13	100	113
<b>TOTAL</b>	<b>2,907</b>	<b>2,469</b>	<b>1,370</b>	<b>1,079</b>	<b>188</b>	<b>175</b>
<b>Oomras—</b>						
C P. Oomras	1,226	1,189	316	247	103	83
Berar Oomras	1,496	1,842	399	500	107	109
Nimar Oomras	143	161	33	49	92	122
C P & Berar Veium	777	334	200	92	103	110
Khandesh Oomras	932	972	227	265	97	109
Khandesh Banilla	113	111	26	30	92	108
Baisi-Nagar Oomras	161	258	28	51	70	79
Hyderabad Oomras	1 720	1,813	295	296	69	65
<b>TOTAL</b>	<b>6,568</b>	<b>6,680</b>	<b>1,524</b>	<b>1,530</b>	<b>93</b>	<b>92</b>
<b>Hyderabad—</b>						
Gaorani	887	934	142	143	68	61
<b>Central India—</b>						
Malvi	992	1,004	176	180	71	72
<b>Central India—others</b>						
	792	743	149	166	75	89
<b>TOTAL</b>	<b>1,784</b>	<b>1,747</b>	<b>325</b>	<b>346</b>	<b>73</b>	<b>79</b>
<b>Broach</b>						
	859	906	286	227	133	100
<b>Surti</b>						
	704	675	158	149	90	88
<b>Dholleras—</b>						
Gujarat—Dholleras	732	686	166	158	91	92
Gujarat-short staple	25	17	7	3	112	71
<b>Kathiawar—</b>						
Dholleras	856	769	121	82	57	43
<b>Kathiawar—short staple</b>						
	547	586	76	88	56	60
Cutch Dholleras	30	16	6	2	80	50
<b>TOTAL</b>	<b>2,190</b>	<b>2,074</b>	<b>376</b>	<b>333</b>	<b>69</b>	<b>64</b>
<b>Southerns—</b>						
Kumpta & Upland	1,362	1,336	216	210	63	67
<b>Bijapur &amp; Bagalkot</b>						
Jowari	501	623	44	52	35	33
Westerns	1,241	1,172	147	153	47	52
<b>White and Red</b>						
Northerns	150	193	17	24	45	50
<b>Warangal and</b>						
Cocanadas	226	207	39	33	69	61
<b>Chinnapathi (short staple)</b>						
	11	11	1	1	36	36
<b>TOTAL</b>	<b>3,491</b>	<b>3,542</b>	<b>464</b>	<b>473</b>	<b>53</b>	<b>53</b>

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## 286 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Descriptions of Cotton	Area in 1,000 Acres		In 1,000 Bales of 400 lbs each		Yield per acre (lbs)	
	1941-42	1940-41	1941-42	1940-41	1941-42	1940-41
Tinnevellies (including Karungannies)	721	710	168	163	93	92
Cambodias	627	518	255	220	163	170
Solems	62	57	7	6	45	42
Comillas	143	147	42	49	117	133
<b>GRAND TOTAL</b>	<b>23,547</b>	<b>23,286</b>	<b>5,980</b>	<b>5,903</b>	<b>102</b>	<b>101</b>

**Cotton in Foreign Countries.**—The estimates of the cotton crop of the United States of America for 1942 are 13,818,000 bales of 500 lbs each (equivalent to 17,272,000 bales of 400 lbs each) as compared with 11,061,000 bales (equivalent to 13,826,000 bales of 400 lbs each) in 1940

The area and production of cotton crop in Egypt for 1943, are placed at 703,000 acres and 861,000 bales of 400 lbs each, showing a decrease of 57 and 50 per cent respectively, as compared with the preceding season. In the Anglo-Egyptian Sudan, the yield of cotton during the season 1942-43 is estimated at 320,000 bales of 400 lbs each, which is 10 per cent above that of the preceding season. In Uganda the cotton crop of 1941-42 (picked during the period November 1941 to March 1942) is estimated at 364,000 bales of 400 lbs each, as against 325,000 bales in 1940-41.

Exports of raw cotton during the last few years are tabulated below

	Pre-war average	1938	1939	1940
	(in 1,000 bales of 400 lbs)			
United Kingdom	152	411	473	291
British Empire (except U K)	13	23	26	43
Japan	1,540	1,211	1,056	705
Italy	263	92	52	—
France	91	160	229	126
China	289	193	681	754
Belgium	217	142	68	5
Spain	61	2	15	—
Germany	198	192	52	—
Austria	32	—	—	—
Other countries	61	268	296	239
	<b>2,917</b>	<b>2,703</b>	<b>2,948</b>	<b>2,168</b>
Value in lakhs of Rs	64.74	23.86	30.11	23.56

### RICE

Rice is the greatest economic crop of India, the principal seats of cultivation being Bengal, Bihar, Orissa and Madras. Rice is also grown in fairly large quantities in Central Provinces, Assam, Bombay and the United Provinces. It is also grown in the Indian States such as Hyderabad, Mysore, Coorg and Baroda. Rice crop is greatly influenced by the monsoon, the failure of it having much adverse effect on the

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output The output of Burma is however constant, the failure of rains being practically unknown there.

The total areas under rice and the yields for respective provinces are shown as under.—

	Average of preceding 5 years (Area in 1,000 acres)	1940 -41	1941 -42	Average of preceding 5 years (Yield in 1,000 tons)	1940 -41	1941 -42
Bengal						
Autumn Crop	5,788	5,416	6,485	1,808	1,525	2,250
Winter "	15,699	14,917	16,914	6,407	4,315	7,766
Summer "	418	437	425	198	203	201
Madras	9,911	10,744	10,333	4,590	5,150	5,080
Bihar						
Autumn Crop	2,318	2,210	2,232	609	487	577
Winter "	7,328	6,989	6,625	2,344	1,643	2,166
Summer "	12	12	12	4	4	4
C P and Berar	7,768	7,823	7,703	2,095	1,485	1,211
United Provinces	7,306	7,358	6,591	2,155	1,823	1,581
Assam						
Autumn Crop	1,045	1,092	994	390	320	267
Winter "	4041	4,134	3,429	1,371	1,356	1,111
Summer "	197	196	197	89	88	91
Orissa						
Autumn Crop	965	897	924	250	200	202
Winter "	4,117	4,026	4,029	1,192	1,129	1,170
Summer "	28	34	29	8	10	8
Bombay	2,402	2,421	2,275	968	981	769
Sind	1,289	1,476	1,384	475	429	392
Punjab	1,021	951	889	320	301	299
Cooch	84	87	88	55	63	60
Hyderabad	972	925	674	346	363	107
Mysore	732	765	753	238	229	231
Baroda	186	165	147	38	39	20
Bhopal	30	34	33	6	7	4
<b>TOTAL</b>	<b>73,657</b>	<b>73,059</b>	<b>73,165</b>	<b>25,956</b>	<b>22,150</b>	<b>25,567</b>

Estimated area under rice in 1941-42 is 73,165,000 acres having an estimated yield of 25,567,000 tons

Rice crop is known as autumn crop winter crop or summer crop according as the crop is harvested in autumn, winter or summer

India is the largest producer of rice in the world The output in 1941-42 amounted to 25.6 million tons as compared with 12.8 million tons in Burma 8.5 million tons in Japan 2.0 million tons in Korea 1.1 million tons in Formosa 1.7 million tons in Siam and 1.2 million tons in U S A during the same period.

The chief foreign purchasers of rice are Ceylon, China, Straits Settlements, Germany, U K, Netherlands and Sumatra

### WHEAT.

One-tenth of the world's supply of wheat is produced in India It is grown extensively in the Punjab and the United Provinces and on a smaller scale in C P, Bombay, Bihar and Orissa and North-West India Indian States also grow enormous quantities of wheat, the most important of them being Central Indian States, Gwalior State, Punjab State, Rajputana State, Hyderabad State, etc

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## 288 INDUSTRY YEAR BOOK & DIRECTORY, 1943

The total area reported in 1941-42, is 33,979,000 acres, as against 34,849,000 acres last year. The total yield of the crop, which has already been harvested, is estimated at 10,070,000 tons as compared with 10,027,000 tons last year. The acreage and yield in the most important wheat-bearing regions are given below for reference —

	Average of preceding 5 years			1940 -41	1941 -42	Average of preceding 5 years			1940 -41	1941 -42
	(Area in 1,000 acres)					(yield in 1,000 tons)				
Punjab	9,547	9,884	9,994			3,433	3,339	3,873		
United Provinces	7,885	7,935	7,873			2,753	2,826	2,608		
C P and Berar	3,290	3,229	2,854			640	572	388		
Bombay	1,745	1,752	1,555			317	320	241		
Sind	1,130	1,204	1,175			332	323	380		
Bihar	1,120	1,096	1,300			419	405	485		
N W F Provinces	1,007	1,088	1,062			259	248	238		
Bengal	158	169	170			42	34	41		
Delhi	45	48	45			16	16	11		
Ajmer-Merwara	17	24	15			5	7	5		
Orissa	4	4	4			1	1	1		
Punjab State	1,475	1,522	1,616			471	488	520		
Rampur	115	112	128			31	35	49		
Eastern Agency States	76	76	72			13	10	12		
Bombay States	405	349	365			113	83	95		
Sind State (Khairpur)	95	100	101			30	28	30		
Central India States	2,137	2,212	1,919			375	378	288		
Gwalior	1,550	1,533	1,314			366	338	290		
Rajputana	1,352	1,347	1,220			364	377	331		
Hyderabad	1,248	1,090	1,125			169	150	134		
Baroda	74	72	69			24	49	41		
Mysore	3	3	3			1	(a)	(b)		
<b>TOTAL</b>	<b>34,478</b>	<b>34,849</b>	<b>33,979</b>			<b>10,174</b>	<b>10,027</b>	<b>10,070</b>		

(a) 500 tons. (b) 400 tons

Imports into and exports from India of wheat are given below —

	1934	1935	1936	1937	1938	1939	1940
	-35	-36	-37	-38	-39	-40	-41
	(in 1,000 tons)						
Exports	11	10	231	460	279	78	45
Imports	74	13	—	22	159	855	19

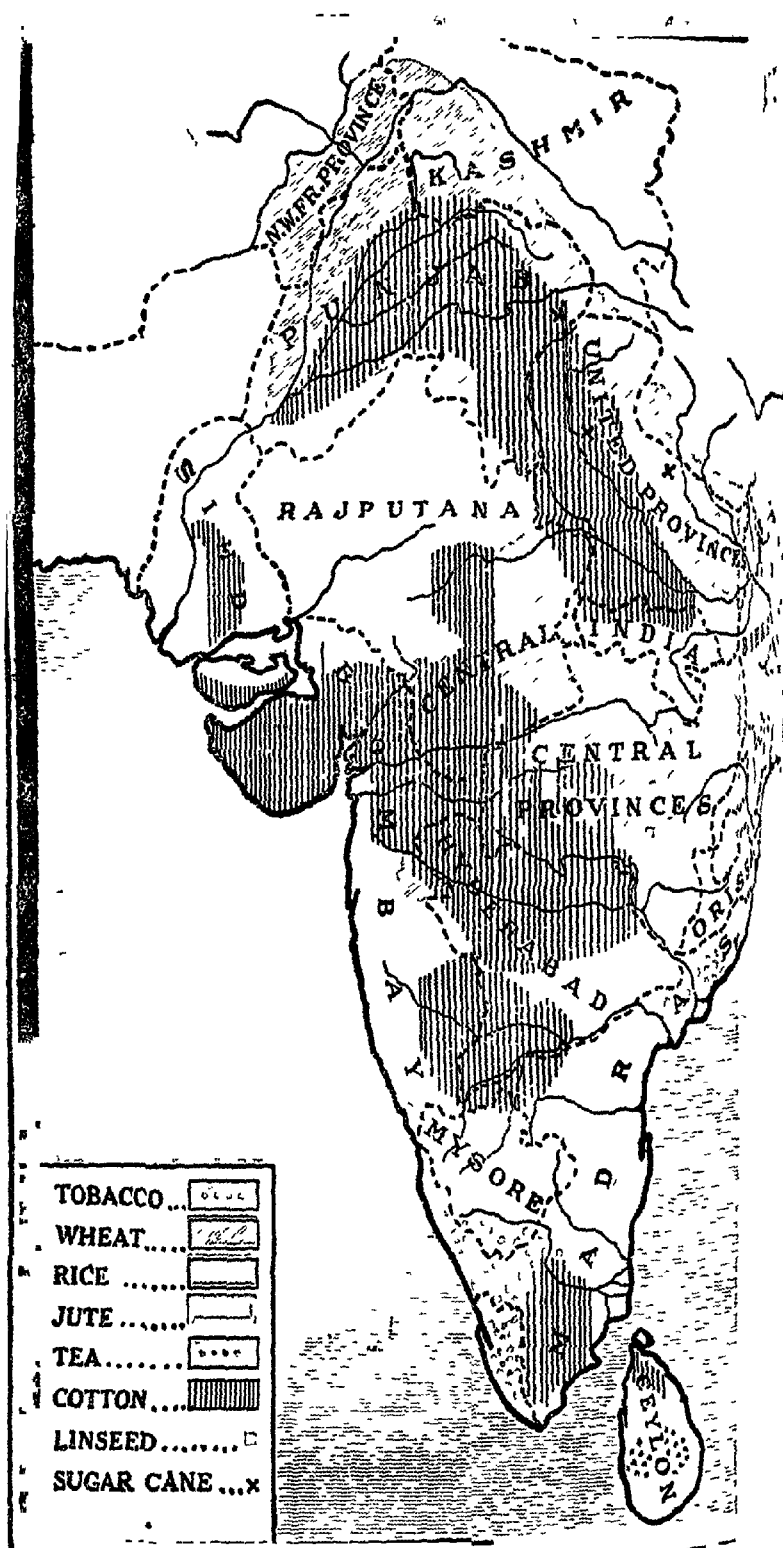
The area and yield of the 1942 wheat crop in the United States of America are estimated at 39,318,000 acres and 630,913,000 bushels (or 16,899,000 tons), as compared with 45,663,000 acres and 671,293,000 bushels (or 17,981,000 tons) in 1941. In Canada, the area under the wheat crop during the current season is estimated at 21,055,000 acres, as against 28,726,000 acres in 1940. In Australia, the estimates for the 1941-42 wheat crop are 12,654,000 acres and 162 million bushels (or 43 million tons), as against 12,454,000 acres and 827 million bushels (or 22 million tons) in the preceding season. The third estimate of yield of the wheat crop of Argentina for 1941-42 is placed at 6,002,000 tons, as compared with 8,021,000 tons in 1940-41.

### OIL SEEDS.

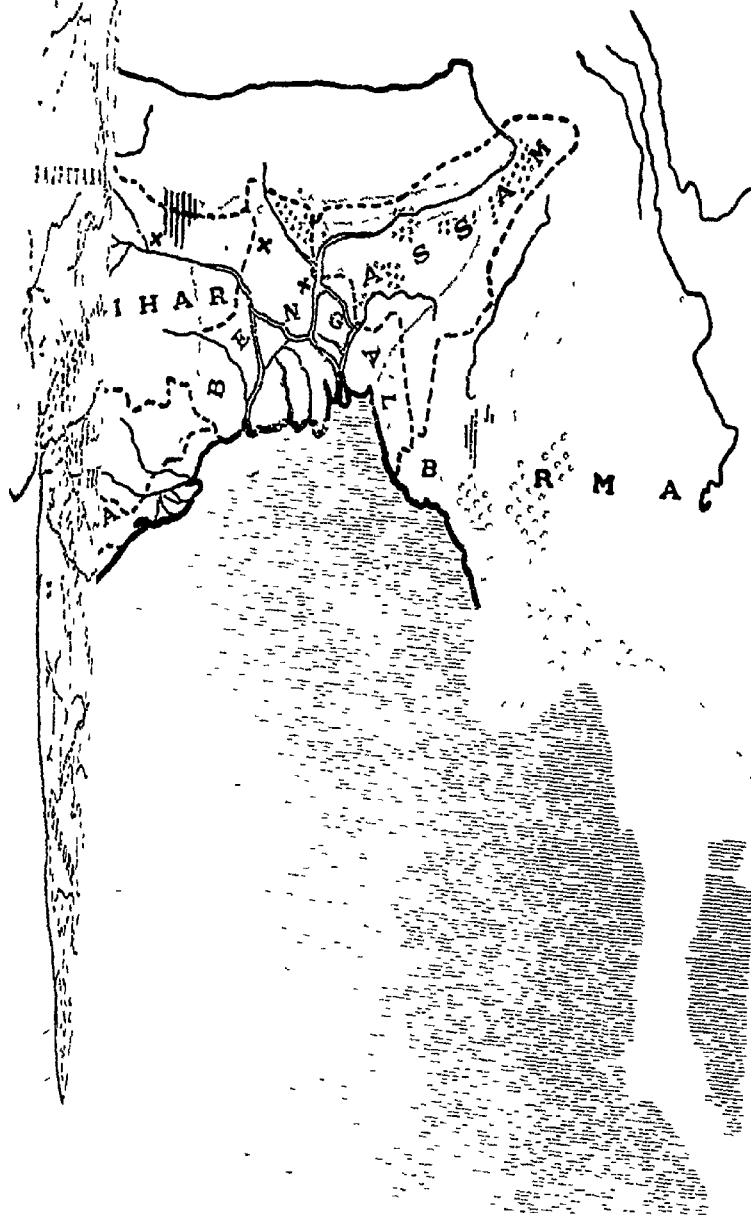
Indian production of oil seeds which comprise linseed, groundnut, cotton seed, castor, sesame, rape and mustard, mahua, copra, etc., on a conservative estimate exceeds 5 million tons annually. This, besides

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# AGRICULTURAL MAP OF INDIA





satisfying in full the local requirements for Indian industries and home consumption, leaves huge surplus for exports

The oil crushing industry is making considerable headway in the country but still there are enormous exports of seeds which are of much economic loss to the country in the shape of loss of oils and oil cakes possessing inestimable value as fertilisers and cattle food. The total exports of oilseeds consisting largely of groundnuts and linseed from British India declined by 17 per cent. in quantity and 16 per cent. in value and amounted to 703,000 tons valued at Rs. 9.99 lakhs in 1941-42 as compared with 849,000 tons valued at Rs. 11.94 lakhs in 1939-40. The exports further dwindled in 1941-42 due to the dislocation of the oilseed crushing industry of Europe.

The more important of the seeds are treated separately—

#### Castor Seed.

Castor seed is grown very widely all over the country. The principal provinces where the plant flourishes most are Hyderabad and Madras which cover between them 70 per cent. of the total area under cultivation. The crop is also raised in Central Provinces and Berar, Bihar and Orissa, United Provinces where it is grown as a mixed crop, Bombay, Mysore and Baroda. The seed is harvested from January to February and the late variety which is grown in September is harvested in March and April. The oil besides being used as a lubricant is now employed in the manufacture of Turkey-red oil required in the dyeing and printing of cotton goods, preservative of leather belting, and in leather industries.

The total area under castor seed during 1941-42 is reported to be 931,000 acres, as against 1,021,000 acres last year, or a decrease of 9 per cent. The total yield is estimated at 89,000 tons as against 105,000 tons last year, showing a decrease of 15 per cent.

Of the total crop, Madras was responsible for 18 per cent., Bombay 6.7 per cent., Bihar 2.3 per cent., Central Provinces & Berar 2.1 per cent., Orissa 1.5 per cent., Hyderabad 53.5 per cent., Mysore 7 per cent. and Baroda 6.9 per cent.

The area under the crop in various provinces follows.—

	Average of preceding 5 years			1940 -41	1941 -42	Average of preceding 5 years			1940 -41	1941 -42
	(Area in 1,000 acres)					(Yield in 1,000 tons).				
Madras	260			267	245	24			27	24
Bombay	90			75	81	14			11	11
Bihar	34			33	35	5			4	5
Central Provinces & Berar	30			29	27	5			5	4
Orissa	21			19	20	2			2	2
United Provinces	10			11	11	3			4	3
Sind	3			2	3	—			—	—
Hyderabad	614			431	357	48			39	30
Mysore	103			104	103	6			8	6
Baroda	71			50	49	5			5	4
	1,242			1,021	931	112			105	89

Quantities exported by sea from India (including Kathiawar) to foreign countries during the past five official years were:—

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## 290 INDUSTRY YEAR BOOK & DIRECTORY, 1943

	Tons		Tons.
1936-37	45,800	1939-40	42,600
1937-38	44,200	1940-41	72,100
1938-39	10,700		

### GROUNDNUT.

The groundnut is the seed of the plant *Archus hypogola* of the natural order Leguminosae. The nuts owe their popularity to their nourishing dietary value and cheapness and are otherwise known as pea nuts, earth nuts, and monkey nuts. The groundnuts are now-a-days extensively cultivated all over the country and have assumed an economic importance of the first magnitude in some provinces. Groundnuts are gradually displacing other products as a raw material for the manufacture of margarine and edible oils. An improvement has been effected in the quality of groundnuts, exported from India, particularly as regards the reduction of fatty acid contents. Madras, Burma, Bombay and the State of Hyderabad comprise a little over 97 per cent. of the total area under groundnut in India. Considerable expansion is in view. In Madras, which carries over 50 per cent of the total reported acreage under the crop, varietal and cultural experiments are in progress on a special farm. The introduction of early varieties which do not require irrigation, has given groundnuts the position of being the most important kharif oil seed grown in the Bombay Presidency. Groundnuts have invaded the cotton tracts of the Central Province, where they are grown either in rotation with or in the place of cotton. The groundnut has become very popular on the poor soils of Chota Nagpur.

	Average of preceding 5 years (Area in 1,000 acres)	1940 -41	1941 -42	Average of preceding 5 years (Yield in 1,000 tons)	1940 -41	1941 -42
Madras	3,613	3,922	2,762	1,647	1,924	1,186
Bombay (including Indian States)	2,151	2,529	2,196	778	962	788
C P & Berar	203	233	213	55	65	52
United Provinces	122	159	110	(b)	68	46
Orissa	(a) 17	20	18	(c) 7	7	7
Hyderabad	1,329	1,686	1,395	422	613	414
Mysore	204	221	206	38	63	53
Total	7,639	8,770	6,900	(d) 2,947	3,702	2,546

(a) Average for 3 years

(c) Average for 2 years

(b) Not available.

(d) Excluding the U P

Groundnut is exported to a considerable scale and is one of India's valued cash crops. In 1940-41 the exports amounted to 339,000 tons, valued at Rs Rs 4.06 lakhs as against 549,000 tons valued at Rs 7.19 lakhs in 1939-40, 835,103 tons valued at Rs 9.92½ lakhs in 1938-39 and 619,370 tons valued at Rs 8.93½ lakhs in 1937-38. Of the total exports in 1940-41, the United Kingdom took 214,000 tons, Netherlands 19,000 tons, and France 25,000 tons. These figures are exclusive of orders for cargo.

The chief ports of export are Madras and Bombay. Out of the total exports Madras was responsible for 83 per cent and Bombay for 17 per cent.

### LINSEED.

Linseed is an important winter oil seed of India growing principally in the United Provinces, Bihar and Orissa and the Central Provinces.

Principles of construction of storage batteries and their care are dealt in **Manufacture of BATTERIES**. Re. 1/12. Industry Book Dept., Calcutta.

The other places where this oil seed is also cultivated are Bombay, Bengal, Punjab, Hyderabad and Kotah

It is the seed of the common flax or lint, botanically recognised as *Linum Usitatissimum*. This is a late crop, being sown from August to October and harvested from January to April

The season of sowing varies greatly for the two Presidencies and even for the districts of the same Presidency. Taking the general case, it appears that the crop is sown from May to August and is harvested from November to January. A summer variety is also grown in Madras forming 5 per cent of the total area under the crop. This variety is sown in February-March and harvested in July-August. It may be added that as a general rule Bombay crop comes in season in November and the Madras crop six weeks after on the average.

Linseed is grown outside India chiefly in U. S. A., Canada and Argentina. Linseed grown outside India is larger and plumper than that obtained in India but linseed of India yields the superior variety of oil.

The acreage and yield of linseed in the different provinces and States of India follow —

	Average of preceding 5 years	1940 -41	1941 -42	Average of preceding 5 years	1940 -41	1941 -42
	(Area in 1,000 acres)			(yield in 1,000 tons)		
Central Provinces & Berar	1,356	1,326	1,074	105	104	60
United Provinces						
Mixed	277	255	175	46	49	29
Unmixed	631	585	646	108	112	107
Bihar	563	534	544	80	71	76
Bengal	136	155	159	26	22	32
Bombay	125	118	102	12	12	9
Punjab	31	33	31	3	3	3
Orissa	8	8	9	1	1	1
Hyderabad	446	454	471	40	43	35
Kotah (Rajputana)	94	79	77	10	9	5
Bhopal	55	72	52	6	8	4
	3,722	3,619	3,340	437	434	361

Shipments of linseed from India were 318,000 tons in 1938-39, 219,000 tons in 1939-40, and 238,000 tons in 1940-41. The United Kingdom was the best customer and took 200,000 tons as against 172,000 tons in 1939-40. Of the total exports Bengal accounted for 39 per cent, Bombay 50 per cent, and Madras 11 per cent.

The oil obtained from the seeds, known as linseed oil, has met with extensive uses due to its drying properties in the manufacture of paints, printing ink, floor cloth, vulcanised rubber, oil varnish and soft soap.

#### Rape Seed and Mustard Seed.

Much confusion exists between the rape seed and mustard seed of commerce. Both of them belong to the genus *Brassica* but while rape seed denotes the species of *Brassica Campestris*, mustard seed denotes the species of *Brassica Juncea*.

The cultivation of rape seed is pre-eminently restricted to the northern part of India, there being, so to speak, only limited area under tillage in Southern India. The principal provinces where rape seed is grown are the United Provinces, Bengal, Punjab, Bihar and Orissa.

Principles of construction of storage batteries and their care are dealt in *Manufacture of BATTERIES*, Re 1/12, Industry Book Dept., Calcutta.



## 292 INDUSTRY YEAR BOOK & DIRECTORY, 1943

The crops are sown either in October or November and gathered in February and March and sometimes as early as January for the purpose of cattle fodder. The acreage under rape seed and yield are illustrated by the following figures —

	Average of preceding 1940 1941 5 years -41 -42			Average of preceding 1940 1941 5 years -41 -42		
	(Area in 1,000 acres)			(yield in 1,000 tons)		
United Provinces	259	262	285	47	54	53
Mixed	2,438	2,476	2,816	436	517	533
Unmixed	837	1,335	1,000	126	177	158
Punjab	753	753	741	157	130	145
Bengal	520	487	486	113	98	104
Bihar	395	387	404	58	65	61
Assam	166	221	184	16	23	19
Sind	95	136	108	12	15	11
N W F Province	70	66	61	14	12	8
C P & Berar	27	27	29	5	5	6
Orissa	25	23	12	4	3	2
Bombay	6	3	5	1	(c)	(c)
Delhi	53	26	60	7	2	8
Alwar	13	5	7	2	1	1
Baroda	10	11	10	1	1	(d)
	5,667	6,218	6,208	999	1,103	1,109

(c) 200 tons

(d) 500 tons

The total area under rape and mustard amounts to 6,208,000 acres, as compared with 6,218,000 acres last year. The total estimated yield is 1,109,000 tons, as against 1,103,000 tons last year or an increase of 6,000 tons.

The exports of rape and mustard seed during the three years ending 1940-41 amounted to 11,734 tons, 22,000 tons and 35,000 tons. The exports were valued at Rs 15½ lakhs in 1938-39, Rs 33 lakhs in 1939-40 and Rs 47 lakhs in 1940-41. Of the total quantity exported from India about 92 per cent is shipped from Karachi. During 1940-41, the United Kingdom took 23,000 tons or 66 per cent.

### SESAMUM.

Sesamum is the seed of Sesamum Indicum, an annual herbaceous plant growing copiously in the tropical and sub-tropical parts. In India it is cultivated extensively all over the country and especially in Bombay, Burma, Madras and Central Provinces.

Sesamum is grown as a pure crop all over India and in certain localities such as U P as mixed crop. There are two crops, a rabi and a kharif one and various cultivated forms of the plant, some, specially suitable for growing in the kharif season, other as early as rabi crop. Two at least of these are easily recognised, one with white seed and the other with black. The latter is much the more common form and is reputed to yield a superior oil.

Area under crop and yield during the last few years follow —

	Average of 1940 1941 preceding 41 -42 5 years			Average of 1940 1941 preceding -41 -42 5 years		
	(Area in 1,000 acres)			(Yield in 1,000 tons)		
United Provinces	309	283	317	29	27	26
Unmixed	922	997	1,046	82	95	87
Mixed						

Methods of Imports and Exports are discussed in full in **TRADER'S MANUAL**, Re. 1/4. Industry Book Dept., Shambazar, Calcutta.

	Average of preceding 5 years	1940 -41	1941 -42	Average of preceding 5 years	1940 -41	1941 -42
	(Area in 1,000 acres).			(Yield in 1,000 tons).		
Madras	787	786	683	93	103	86
Bombay	523	529	510	64	59	61
C P and Berar	456	477	483	36	39	39
Bengal	186	173	178	37	33	33
Orissa	109	99	101	14	12	13
Bihar	118	117	116	16	13	17
Punjab	93	74	101	8	7	10
Sind	23	6	7	2	(a)	1
Ajmer-Merwara	24	11	11	1	(b)	(a)
Hyderabad	512	406	404	35	33	33
Bhopal	68	46	53	5	5	5
Baroda	49	42	39	3	3	3
Kotah	42	51	48	3	4	2
<b>TOTAL</b>	<b>4,221</b>	<b>4,097</b>	<b>4,097</b>	<b>428</b>	<b>433</b>	<b>415</b>
	(a) 400 tons			(b) 300 tons		

A large portion of the seed is used for local consumption. Exports of sesamum were 10,126 tons in 1937-38, 7,650 tons in 1938-39, 3,502 tons in 1939-40, and 3,875 tons in 1940-41. The exports were valued at Rs 19½ lakhs in 1937-38, Rs 15 lakhs in 1938-39, Rs 7 lakhs each in 1939-40 and 1940-41.

#### TOBACCO.

Tobacco is one of the most valuable crops grown in India, about 39 per cent of the total quantity of tobacco produced in the world being grown in this country. The estimated area under tobacco in 1938-39 amounted to 13 million acres approximately. There has been a steady increase in area during the past quinquennium with a 30 per cent. increase on the pre-war average. The tobacco-growing provinces in India are named in order of their importance in acreage.—Madras (320,000), Bengal (316,000), Bombay (155,000), Bihar (104,000), United Provinces (98,000), Punjab (83,000), Hyderabad (58,000), Mysore (25,000), Assam (14,000), Central Provinces (11,000), Sind (5,000), etc., the figures within the brackets standing for the area under tillage during the period 1938-39.

#### TEA.

The chief tea growing provinces in India are Assam and Bengal which claim between themselves 80 per cent of tea output in India. Tea is also planted in the south in and around the Nilgiris. The number of plantations in the whole of India is above 6,300 with 833,000 acres under tea.

The total production of tea in India in the sessions ending 1941-42 follows —

	1936-37	1937-38	1938-39	1939-40	1940-41	1941-42
	(in million lbs)					
Northern India	331	359	378	375	385	417
of which Assam	223	242	261	253	260	—
Southern India	64	71	75	78	79	84
<b>TOTAL</b>	<b>395</b>	<b>430</b>	<b>452</b>	<b>453</b>	<b>464</b>	<b>501</b>

Methods of Imports and Exports are discussed in full in **TRADER'S MANUAL** Re 1/4. Industry Book Dept, Shambazar, Calcutta.

## 294 INDUSTRY YEAR BOOK & DIRECTORY, 1943

The output of tea during 1942-43 is estimated to reach a record figure of 555 million lbs of which the Northern gardens themselves might produce on a conservative estimate 470 million lbs

The total area under tea in India in the last few years follows —

	1936	1937	1938	1939	1940
			(in 1,000 acres)		
Assam	439	440	439	438	439
Rest of Northern India	234	232	232	232	232
Southern India	161	162	163	162	162
<b>TOTAL</b>	<b>834</b>	<b>834</b>	<b>834</b>	<b>832</b>	<b>833</b>

Exports fell in quantity from 359 million lbs in 1939-40 to 349 million lbs in 1940-41 or by 3 per cent, but the value increased from Rs 26,31 lakhs to Rs 27,75 lakhs or by 5 per cent. The total quantity exported in 1940-41 re-presented 75 per cent of the total production as compared with 79 per cent in the preceding year.

Of the total exports of 349 million lbs, the United Kingdom took 315 million lbs or 90 per cent. Shipments to Canada and the United States of America amounted to 14.5 million lbs and 9.3 million lbs.

The share of Calcutta in the total exports of tea in 1940-41 was 61 per cent and of Chittagong 24 per cent., the remainder being shipped mostly from Madras.

The average price per lb realised for tea sold with export rights improved to 13 as—6 p from 11 as—5 p in the preceding season while that for internal consumption declined from 4 as—4p to 4 as—1p.

In sympathy with the prevailing price movements in India at present, there has been a considerable rise in the prices of teas for internal consumption. During the present season and the last the demand for and the price of out market teas might be taken off the internal market for export and a new system has been easily introduced.

Under the block purchase system newly introduced India will not export during 1942-43 to the full extent of its available tea export quota, which is about 489 million lbs, but only its exportable surplus. According to a Press Note issued by the Central Government India will be allowed to export 421.5 million lbs, under the new scheme, both to the United Kingdom and out markets. This leaves a crop of 134 million lbs for internal consumption in the country which normally stands at 110 million lbs, but it is doubtful whether this will be enough in view of the increase which has been taking place in the Indian demand for tea.

### COFFEE.

The number of coffee plantations in India in 1940-41 was 6,833, covering a total area of 334,727 acres, as against 6,796 plantations with an area of 338,845 acres reported in 1939-40. The area actually under coffee in these plantations in the year under review was 182,057 acres, as compared with 183,941 acres in the preceding year. New land planted with coffee during the year amounted to 3,326 acres, while the area under old cultivation abandoned was 5,216 acres. Of the total area under coffee during 1940-41, Mysore accounted for 52 per cent., Madras 26 per cent., Coorg 20 per cent. and Orissa, Travancore and Cochin together 2 per cent.

The total reported production of cured coffee during the year under review was 31,044,000 lbs, as compared with 34,821,717 lbs in the preceding year—the yield per acre of plucked area being 238 lbs (234 lbs) in Madras, 251 lbs (224 lbs) in Cochin, 140 lbs (214 lbs)

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in Coorg, 184 lbs (190 lbs) in Mysore, and 74 lbs (295 lbs) in Travancore. The figures for 1939-40 are shown in brackets.

The principal customers of Indian coffee were, in order of their importance in 1940-41, France, Iraq, Bahrein Islands, Arabia and Palestine. The exports during the coffee season (i.e., July to June) were only 52,324 cwts in 1940-41, as compared with 118,862 cwts in 1939-40.

Exports of coffee during 1940-41 suffered a heavy decline, mainly due to the spread of war in the European Continent. Even the U. K., which imported 73,789 cwts in 1938-39 and 46,224 cwts in 1939-40, curtailed its offtake only to a mere 2,719 cwts, presumably due to restrictions placed by it on the import of luxury goods. On account of the heavy decline in export, coffee control was ushered in during the year when the Government of India issued the coffee Market Expansion Ordinance which aimed at securing a fair price to the grower by regulating the internal and export markets for the industry.

### RUBBER.

According to the Indian rubber statistics for 1940 recently issued by the Department of Commercial Intelligence and Statistics, the number of reporting plantations during the year under review was 14,624 covering an area of 223,353 acres as against 14,080 with an area of 220,178 (revised) acres in the preceding year.

The total production of raw rubber during the year is reported to be 35,530,399 lbs (Hevea 35,499,627 lbs, Ceara 2,840 lbs and Ficus elastica 27,932 lbs) as against 31,390,663 lbs. a year ago. The yield per acre of tapped area was 330 lbs in Cochin, 294 lbs in Travancore, 293 lbs in Madras, 254 lbs in Coorg, and 76 lbs in Mysore.

Exports of rubber by sea from India to foreign countries during 1940-41, amounted to 20.3 million lbs, as compared with 23.3 million lbs in the preceding year. Of this, the United Kingdom absorbed 67 per cent, the U. S. A. 15 per cent, and Ceylon 17 per cent.

The area of old cultivation abandoned during the year amounted to 157 acres, while the new extensions (including replanting in areas abandoned in previous years) are reported to have been 4,068 acres. The area actually under rubber in these estates amounted to 138,207 acres, showing an increase of 3,911 acres on the area (revised) reported in the previous year, and of this area 120,100 acres were tapped. Of the total area under cultivation, 16 per cent was in Travancore, 11 per cent in Madras, 10 per cent in Cochin, 2 per cent in Coorg and 1 per cent in Mysore.

The daily average number of persons employed in the plantations during 1940 was returned at 31,247 of which 21,889 were permanently employed and 9,358 temporarily employed, as compared with 32,947 (23,291 permanent and 9,656 temporary) in the preceding year.

### COCONUT PLANTATIONS.

In India, the main coconut area is in the south Madras, Travancore and Mysore having the bulk of it. In certain coastal districts of Bombay, Orissa and Bengal the coconut is also important. The total area in India is about 1,388,000 acres.

# INDIAN SUGAR INDUSTRY

**T**HE remarkable development that has taken place in the sugar industry is too recent to have escaped anybody's notice. 20 years ago India imported large quantities of sugar from Java and the number of sugar factories operating in North India could have been counted on one's fingers' ends, but to-day there are over 161 sugar factories working in India. In season 1931-32 there were only 31 factories in operation producing 158,581 tons of sugar whereas in 1941-42 the number of factories rose to 150 and the production was estimated at 8 lakhs tons.

## DEVELOPMENT OF THE INDUSTRY.

The customs tariff on sugar has contributed considerably to this result. In fact the effect of the protective duty has been nowhere more salutary than in the case of sugar industry. As a result of the recommendations made by the Indian Tariff Board, the Sugar Industry (Protection) Act of 1932 was passed in April, 1933. Thereby the industry was accorded protection for a period of seven years ending 31st March, 1938. It was also agreed upon to grant further protection for eight years if the industry still needed support and for this purpose a fresh enquiry was to be made before 1938. The rate of import duty on sugar of all classes was fixed at Rs 7-4 per cwt or Rs 5-5-3 per maund. In addition to this there was also a surcharge of Re 1-13 per cwt or Re 1-5-3 per md of imported sugar. The total protection thus came to Rs 9-1 per cwt or Rs 6-10-6 per maund. The sugar industry in India thus enjoyed protection to the unprecedented extent of approximately 200 per cent.

Consequent on the high degree of protection afforded to the industry, a great deal of public interest was concentrated since 1932 on the setting up of factories for the manufacture of sugar in different parts of India, notably in the United Provinces and Bihar. There was an immediate response from investors with an influx of capital into the domestic sugar industry. A moderate estimate of the capital invested in the 127 factories built since 1932 appears to exceed 15 crores and the total capital sunk in the industry including the pre-protection factories will be in the neighbourhood of 20 crores.

The newly established factories soon began work and the output of sugar went up immensely. While in 1932-33 the production of sugar was 290,000 tons, this rose to 1,242,000 tons in 1939-40. The imports in the meantime also went down. While these amounted to 893,404 tons in 1930-31, these declined to 35,679 tons in 1938-39. But before the industry could stand on its legs, it was burdened with an increasing rate of excise duty since April, 1934. This was fixed at 10 annas on Khandasari sugar and Re 1-5 per cwt on all other sugar except palmira sugar in 1934. In 1937 it was further enhanced to Rs 2/- . The excise duty on white sugar was further enhanced from Rs 2 to Rs 3 per cwt with effect from the 1st March, 1940. Simultaneously the rate of import duty was raised from Rs 8-12 to Rs 9-12 per cwt.

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In consequence of the excise duty imposed, the putting up of new cane factories has almost come to a stop. The production of sugar by Gur refineries and Khandsaries has also shown a marked reduction.

The sugar industry in the United Provinces and Bihar passed through a major crisis in 1940. Burdened with a heavy accumulation of surplus stocks, and with demand reduced to a negligible amount, the plight of the industry was an unhappy one. The Provincial Governments, however, assumed a closer control over the production and marketing of sugar towards the end of 1940, and thus turned the tide in the industry's favour. The announcement of the Government's intention compulsorily to restrict production in season 1940-41, coupled with drastic reduction in selling rates by the Indian Sugar Syndicate, brought about a marked improvement in demand. As a result, sales of sugar (which had been practically nil for some months previously), were resumed by factories on a more or less normal scale.

#### TARIFF BOARD REPORT.

As originally contemplated a fresh Tariff Enquiry was made to investigate whether the protection granted should be continued after 31st March, 1938. The Tariff Board recommended continuance of protection at the existing rate of Rs 7-4-0 per cwt till the 31st of March, 1946. The Government, however, was unable to accept the Board's recommendation. It was decided that protection should be at the reduced rate of Rs 6-12-0 per cwt for the 2 years, e.g., 1st April 1939 to 31st March, 1941. The rate of protection for the remaining period would be determined after a further enquiry. The Board also recommended the convening of an all India Conference to work out a scheme for rationalizing the sugar industry, under some form of State control. But due to unsettled conditions as a result of the war it has been decided to postpone the holding of such a Conference for the present.

The Tariff Board stressed the need for finding improved outlets for the molasses produced by sugar factories in India. It recommended that permission should be accorded for the manufacture of power alcohol from molasses. The subject was investigated in detail by a Joint Power Alcohol Committee appointed by the Governments of the UP and Bihar. The Committee was to advise the two governments on the manufacture of Power Alcohol from molasses and on the use of petrol and power alcohol mixture as a motor fuel. The Committee found that Power Alcohol could be manufactured from molasses at a reasonable cost and that the mixture of power alcohol and petrol would be suitable for use in motor vehicles. The Committee recommended legislation to establish a power alcohol industry under Government control, and for the compulsory admixture with power alcohol of all petrol intended for use as fuel in motor vehicles. The Government of the UP accepted the recommendations of the Committee, and a bill to provide for the compulsory admixture of power alcohol with petrol has been passed by both the houses of legislature.

#### AREA UNDER SUGAR CANE.

India has now got the second largest area under cane cultivation as compared to any other country of the world. It is at present about 3.5 million acres, which is equal to one quarter of the total acreage of sugar cane of the world. The area sown was 4,598,000 acres in 1940-41 which is the peak year of production.

Out of total production of sugarcane seventy-six per cent. of the produce comes from a broad strip of the Indo-Gangetic plain, lying

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## 298 INDUSTRY YEAR BOOK & DIRECTORY, 1943

alongside the Himalayas and stretching from Gujaspur (Punjab) on the west to Darbhanga (Bihar) on the East. The principal sugar area lies in the United Provinces as well as that portion of Bihar, lying north of the Ganges. Sugarcane is a crop that depends considerably on irrigation. Instead of thriving in the submontane southern peninsula of India, where irrigation is naturally difficult, the crop has found congenial soil in the north which presents a net work of irrigational works.

The following table shows the area under sugar cane in the principal sugar cane bearing tracts of India —

	1937-38	1938-39	1939-40	1940-41	1941-42
	(areas in 1,000 acres)				
U P	2,222	1,652	1,909	2,555	1,745
Punjab	510	354	417	549	456
Bengal	290	299	316	331	314
Bihar	300	375	441	508	384
Madras	98	98	138	162	112
Bombay	110	114	145	167	156
N-W F. P.	70	51	71	96	85
Assam	39	38	38	41	40
C P & Berar	34	29	30	33	32
Orissa	34	32	33	35	32
Mysore	50	45	49	53	46
Hyderabad	30	29	36	45	41
<b>TOTAL</b>	<b>3,869</b>	<b>3,130</b>	<b>3,640</b>	<b>4,598</b>	<b>3,466</b>

Out of the total area under sugar cane in the United Provinces 2,893,000 acres are under improved crops. These improved varieties originally bred at Coimbatore have shown their unmistakable superiority over the indigenous types and their cultivation is rapidly increasing. This is a move in the right direction which is bound to increase the output of sugar in India.

### OUTPUT OF GUR.

The total yield of gur or raw sugar from the sugarcane grown in India is given by the following table —

	1937-38	1938-39	1939-40	1940-41	1941-42
	(areas in 1,000 maunds)				
U P	3,194	1,454	2,176	2,878	1,542
Punjab	389	229	318	470	410
Bihar	379	369	460	517	387
Bengal	483	439	526	532	479
Madras	279	274	409	485	327
Bombay	272	274	365	420	384
N-W F. P.	73	57	77	107	95
Assam	40	38	38	45	41
C P & Berar	51	45	44	50	42
Orissa	74	62	56	68	64
Mysore	74	58	78	80	64
Hyderabad	60	64	75	103	81
<b>TOTAL</b>	<b>5,400</b>	<b>3,338</b>	<b>4,662</b>	<b>5,794</b>	<b>3,957</b>

The above table shows that the production of gur in India has increased considerably during till session 1940-41. The estimated pro

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duction of gur during 1941-42 is 3,957,000 maunds which shows a decrease of 32 per cent.

### PROVINCIAL DISTRIBUTION OF FACTORIES.

150 cane factories, out of a total of 161 factories existing in India, worked during the season 1941-42 10 factories did not operate during the season and one has been excluded from this review since it is a small experimental plant for training students. Four new factories worked during the season, one each in the U. P., Madras, Kapurthala State (Punjab) and N W Frontier Province.

The following table shows the provincial distribution of factories working with cane during the last six seasons —

	1935	1936	1937	1938	1939	1940	1941
	-36	-37	-38	-39	-40	-41	-42
U. P.	67	68	68	69	70	70	70
Bihar	35	33	33	32	32	32	31
Punjab	4	5	3	3	3	4	4
Madras	8	11	8	7	10	11	11
Bombay	6	6	7	7	8	8	10
Bengal and Assam	6	6	6	8	9	9	9
Orissa	—	—	2	2	2	2	2
Indian States	9	8	9	11	11	12	13
<b>TOTAL</b>	<b>135</b>	<b>137</b>	<b>136</b>	<b>139</b>	<b>145</b>	<b>148</b>	<b>150</b>

### OUTPUT OF SUGAR FROM CANE.

The production of sugar direct from cane in modern factories in India during the season 1939-40 was the highest production ever attained by the cane sugar industry in India. It exceeds the previous record of 11.1 lakhs tons in 1936-37 by nearly 12 per cent and the productions in 1937-38 and 1938-39 by 33 per cent and 91 per cent respectively. The actual production of sugar direct from cane was 1,241,700 tons as against 650,800 tons in 1938-39, 930,700 tons in 1937-38 and 1,111,400 tons in 1936-37.

The production in the season 1940-41, however, had a serious setback and stood at 1,095,400 tons which marks a drop of 1,46,000 tons or nearly 12 per cent from the production in 1939-40. The production has fallen by 22.6 per cent in the United Provinces and Bihar. The output of sugar in the rest of India increased from 2.60 lakhs tons in 1939-40 to 3.36 lakhs tons in 1940-41. Provinces other than the United Provinces and Bihar have produced 3.36 lakhs tons in 1940-41 as against 2.60 lakhs tons in 1939-40, the increase in production amounting to almost 30 per cent.

The tables below show details of sugar production for factories in (a) the United Provinces, (b) Bihar; (c) Bombay, Madras, and the Punjab, (d) Bengal and Assam, Indian States and Burma; and (e) India as a whole.

#### United Provinces.

	1938-39	1939-40	1940-41	1941-42
Number of factories worked	69	70	70	70
Cane crushed (in tons)	3,505,400	7,034,100	5,199,800	3,877,000
Sugar produced (in tons)	320,300	659,500	513,300	382,900
Molasses produced (in tons)	121,700	258,400	189,300	130,700
Recovery of sugar p c cane	9.14	9.37	9.87	9.87
Recovery of molasses p c cane	3.47	3.67	3.64	3.37

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Bihar.				
	1938-39	1939-40	1940-41	1941-42
Number of factories worked	32	32	32	31
Cane crushed (in tons)	1,795,300	3,466,100	2,494,300	1,133,600
Sugar produced (in tons)	161,600	322,100	246,100	117,300
Molasses produced (in tons)	59,500	125,600	93,500	37,400
Recovery of sugar p c cane	9 00	9 29	9 86	10 35
Recovery of molasses p c cane	3 31	3 31	3 74	3 30

## Bombay, Madras and the Punjab.

Bombay, Madras, Sind, and Punjab				Bombay, Madras, Sind, and Punjab		
	1940-41			1941-42		
Number of factories worked	8	11	4	10	11	4
Cane crushed Tons	852,400	482,000	242,700	861,100	352,300	215,700
Sugar produced „	84,800	44,100	21,800	85,000	30,800	19,200
Molasses produced,,	35,400	20,700	10,100	38,600	16,600	7,400
Recovery of sugar per cent cane	9 94	9 15	8 98	9 87	8 74	8 90
Recovery of molasses per cent cane	4 15	4 28	4 16	4 48	4 71	3 43

## Bengal & Assam, Indian States and Orissa.

Bengal and Assam, Indian States and Orissa				Bengal and Assam, Indian States and Orissa		
	1940-41			1941-42		
Number of factories worked	9	11	2	9	13	2
Cane crushed Tons	430,000	1,024,100	27,400	313,600	1,241,200	31,800
Sugar produced „	39,700	102,800	2,300	23,700	116,200	3,000
Molasses produced,,	15,900	37,600	1,300	12,700	48,000	1,500
Recovery of sugar per cent cane	9 23	10 03	8 39	7 55	9 36	9 43
Recovery of molasses per cent cane	3 70	3 67	4 74	4 05	3 86	4 71

## Total Production of Sugar and Molasses by Factories in India.

	1938-39	1939-40	1940-41	1941-42
Cane Crushed (in tons)	7,004,800	13,131,700	11,290,900	8,026,300
Sugar produced (in tons)	650,800	1,241,700	1,095,400	778,100
Molasses produced (in tons)	242,300	485,300	424,600	292,900
Recovery of sugar p c cane	9 29	9 45	9 70	9 69
Recovery of molasses p c cane	3 46	3 69	3 76	3 65

It will be observed from the above table that the quantities of cane crushed and sugar and molasses manufactured in India during 1941-42, were considerably lower than those in 1939-40 when production was the highest

The production of sugar refined from gur and of khandasari sugar amounted to 48,500 tons and 25,000 tons, respectively

The production of sugar directly from cane in India totalled 778,000 tons in the season 1941-42, as against 1,095,400 tons in 1940-41, and 1,241,700 tons in 1939-40. The production in 1941-42 is 29 per cent below the production of 1940-41, and 37 per cent below the production in 1939-40. The production was less than in either of the two previous seasons in all provinces except Bombay. The causes of the short pro

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duction were a general failure of the cane crop all over the country and in the case of the United Provinces and Bihar the restriction of production by the Provincial Governments

The production of Sugar refined from gur and of Khandsari Sugar amounted to 48,500 tons and 125,000 tons respectively

### QUALITY OF SUGAR PRODUCED.

Samples of sugar manufactured by central sugar factories and refineries during the season 1941-42 and received in the Bureau of Sugar Standards were as follows.—

Serial No	Commercial Designations	No of Samples received	Percentages of Samples in			
			1938-39	1939-40	1940-41	1941-42
1	Special Crystals	15	6 50	11.25	2.46	3 46
2	First Crystals	350	60 60	65 83	86 88	80 84
3	Second Crystals	34	20 35	12.08	6 56	7 85
4	Crushed Grades	34	12 99	10 84	4.10	7 85
TOTAL		433	100 00	100 00	100 00	100 00

There is an all-round increase in the number of samples received this year from the different parts of India. Whereas the increase compared with last year in the number of factories sending samples is only 14, the actual number of samples received this year (433) is very much larger being almost double that of last year (244).

The number of commercial designations in use in factories is very much larger than reported in previous reviews. This may be partly due to the very much larger number of samples received this year.

26 B was the most common quality amongst special crystals. The largest number of samples were of the quality D 26 and a majority of the First Crystals were in the range given by I S S No 25 to I S S No 27 in colour, and I S S No C to F in grain size.

The majority of last year's "First Crystals" were of Grade E 26. There is some improvement in the size of grain this year. It may also be noted that as many as 9 samples had colour corresponding to the highest colour standard No 28 which shows that there is an increasing tendency for manufacturing superior class of sugars in India.

The Second Crystals include samples ranging in colour from I S S No NB 23 to I S S No 19 and in grain size from I S S No A to G. The majority of the Second Crystals were of colour 23 and 22, and of grain size F and E.

The majority of samples received this year also had colour ranging between I S S Nos 25 and 26 and grain size ranging between I S S Nos D and E, but in matter of grain size the percentage of samples this year is higher for bolder grain sizes and some contained twins and conglomerates.

The tendency for producing a number of different grades is on the increase but a closer scrutiny would show that as in the previous year, the general tendency was to produce up to four grades at the maximum two and three grades being most common this year as against one and two grades last year.

A few samples of Indian-made refined and fancy sugars were also received. The grading according to I S S Numbers of 5 samples of refined sugar showed that their colour was equal to or above I S S No 28 and grain size mostly G. The following samples of Indian fancy sugars were also received.—

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- |                |                  |
|----------------|------------------|
| 1 Castor Sugar | 4 Demeiara Sugar |
| 2 Cube Sugar   | 5 Cone Sugar     |
| 3 Iceing Sugar | 6 Coffee Crystal |

Manufacture of refined and fancy sugars in India marks a new feature in the sugar industry of this country and it is satisfactory to note that these compare favourable in quality with those of foreign brands

The salient features of the quality of sugar produced by Indian factories, have not altered materially, excepting for a slight improvement in the grain size. The season under review was a short one and factories had ample time for giving more attention to quality and efficiency. A more marked improvement was to be expected ordinarily under these circumstances. The Imperial Institute of Sugar Technology has been drawing the attention of manufacturers, for several years, to the importance of standardising their production and confining it to a small number of well-defined grades, as this would simplify price fixation, make sales easier and reduce the number of disputes about quality of sugar. Hardly any improvement is, however, noticeable in this direction so far. It is for consideration if such improvement can be accelerated by the adoption of some scheme of price fixation which would give no price advantage in respect of small differences in quality but provide substantial price differential between a limited number of quality groups only.

#### RECOVERY OF SUGAR.

An analysis of the average percentage recovery of sugar from cane factories in different provinces during the season 1941-42, shows that the highest recovery for the season was 12.45 per cent as against 11.16 per cent during the preceding season. The average extraction for the whole country was almost the same as that of the preceding year. The recovery in Bihar has increased by 0.49 per cent while the recovery in provinces other than United Provinces and Bihar slightly decreased.

The high recovery in Bihar is due to the extreme shortness of the season and the introduction of certain improved varieties of cane. In a very large number of cases, crushing was limited to the months of January and February when the cane available is in a fully ripe state.

A review of the average percentage recovery of sugar from cane during the last seven seasons is given below —

	Recovery of Sugar per cent (cane)						
	1935-36	1936-37	1937-38	1938-39	1939-40	1940-41	1941-42
United Provinces	9.60	9.65	9.18	9.14	9.37	9.87	9.87
Bihar	8.93	9.20	9.58	9.00	9.29	9.86	10.35
Other Provinces	9.00	9.60	9.77	9.91	9.88	9.34	9.22
All-India	9.29	9.50	9.38	9.29	9.45	9.70	9.69

#### SUGAR OUTPUT DURING LAST 15 YEARS

The following table brings together all-India figures for sugar production for the last 15 years. For comparison figures for recovery of sugar in Java have also been shown side by side.

Sugar in 1927-28 and 1928-29 as seen shown side by side.						
	Number of Factories producing sugar direct from Cane	Cane Crushed	Sugar Produced (in 1,000 tons)	Sugar from Gur	Khandsari Sugar	Total Pro- duction of Sugar
1927-28	26	786	68	52	—	120
1928-29	24	791	68	31	—	101

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	Number of Factories producing sugar direct from Cane	Cane Crushed	Sugar Produced (in 1,000 tons)	Sugar from Gur	Khandsari Sugar	Total Pro- duction of Sugar
1929-30	27	990	90	21	—	111
1930-31	29	1,317	120	30	200	350
1931-32	32	1,783	159	62	250	471
1932-33	57	3,350	290	78	275	643
1933-34	112	5,157	454	65	200	719
1934-35	130	6,672	578	43	150	771
1935-36	137	9,802	912	43	125	1,085
1936-37	137	11,687	1,111	26	100	1,237
1937-38	136	9,916	931	17	125	1,073
1938-39	139	7,005	651	15	100	766
1939-40	145	13,132	1,242	26	125	1,393
1940-41	148	11,290	1,095	—	—	1,095
1941-42	150	8,026	778	—	—	778

## WORKING DAYS AND CANE CRUSHING SEASON

The season 1941-42 was of normal duration. The majority commenced crushing towards the middle of December, 1941, and having finished their quotas, had to close down by the end of May, 1942. Crushing thus took place mainly during the months of January, February, March and April when cane was obtainable at the state of highest maturity. As a result many factories were able to obtain record recoveries, the average figure for the whole tract (United Provinces and Bihar), being as high as 11.22 per cent.

The average number of working days for the whole of India during the season is 85 as against 113 in 1941-42. The average number of working days in the Provinces other than the United Provinces and Bihar is 117 as against 114 in 1940-41.

The average number of working days in the United Provinces was 78 as against 100 in 1940-41, 133 in 1939-40 and 77 in 1938-39. That for Bihar was 54 days as against 100 days in 1940-41 and 136 in 1939-40.

The average quantity of cane crushed by factories declined considerably from 76,300 tons in 1940-41 to 53,500 tons during 1941-42. The average daily cane crushing capacity was 640 tons in 1941-42 as against 690 tons 1940-41, 710 tons in 1939-40, 630 tons in 1938-39 and 660 tons in 1937-38.

The maximum quantity of cane actually crushed for all India was 330,000 tons in 1941-42 as against 303,900 tons in 1940-41 and 296,600 tons in 1939-40.

## PRODUCTION OF SUGAR REFINED FROM GUR.

14 factories refined gur during the calendar year 1941 as compared with 27 in 1932-33. Out of these 7 are pure refineries and 7 are cane sugar factories refining gur in the off-season. The table below shows the provincial distribution of factories refining gur —

Provinces	1939	1940	1941
United Provinces	2	4	6
Bihar	1	1	—
Bengal	—	—	1
Madras	6	5	6
Indian States	1	1	1
<b>TOTAL</b>	<b>10</b>	<b>11</b>	<b>14</b>

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The total production of sugar refined from gur in India during the season 1941 amounted to 48,500 tons as against 29,600 tons in 1940, 14,200 tons in 1939, 16,600 tons in 1938, 19,500 tons in 1937 and 50,067 tons during the season 1936. The increase took place mainly in the United Provinces. Of the total increase of 18,900 tons 15,900 tons were in the United Provinces and 3,000 tons in the rest of India.

The output of gur sugar had been steadily on the decline since 1933, dropping to the lowest recorded figure of 14,200 tons in 1939. This movement now appears to have been arrested. Since then due to the shortage of sugar available for consumption, manufacture of sugar from this source showed remarkable increase, the production being 64 per cent higher than that of the previous year.

The tables below show the details of gur melted, sugar manufactured and molasses obtained in the United Provinces, Bihar & Madras and in the whole of India separately during four years ending 1941:—

#### United Provinces

	1938	1939	1940	1941
Gur melted (tons)	14,500	4,400	28,200	59,900
Sugar manufactured (tons)	8,900	2,600	16,000	31,900
Molasses obtained (tons)	4,800	1,500	10,200	24,700
Recovery of sugar per 100 tons gur (tons)	61.40	59.09	56.73	53.30
Recovery of molasses per 100 tons gur (tons)	33.10	34.08	36.17	41.20

#### Bengal, Madras and Indian States.

	1938	1939	1940	1941
Gur melted (tons)	12,200	18,900	22,600	27,400
Sugar manufactured (tons)	7,700	11,600	13,600	16,600
Molasses obtained (tons)	4,000	4,900	5,600	7,300
Recovery of sugar per 100 tons gur (tons)	63.10	61.37	60.17	60.60
Recovery of molasses per 100 tons gur (tons)	33.80	25.92	24.77	26.60

†Excludes output of Indian States

#### Total Production of Sugar and Molasses in India.

	1938	1939	1940	1941
Gur melted (tons)	26,700	23,300	50,800	87,300
Sugar manufactured (tons)	16,600	14,200	29,600	48,500
Molasses obtained (tons)	8,800	6,400	15,800	32,000
Recovery of sugar per 100 tons gur (tons)	62.17	60.94	58.26	55.60
Recovery of molasses per 100 tons gur (tons)	32.95	27.46	31.10	36.70

The table given below shows the production of sugar by refining gur during the last fourteen seasons —

Year	Tons	Year.	Tons.
1927-28	52,055	1934-35	39,103
1928-29	31,083	1935-36	50,067
1929-30	21,150	1936-37	19,500
1930-31	31,791	1937-38	16,600
1931-32	69,539	1938-39	14,200
1932-33	80,106	1939-40	29,600
1933-34	61,094	1940-41	48,500

RECOVERY OF SUGAR FROM GUR.

An analysis of the average recovery percentage of sugar from gur for factories in different Provinces during the season 1941 as compared with 1940 given below —

	1940	1941	1940	1941	1940	1941
	United Provinces		Other Provinces		All-India	
Maximum	58 97	55 50	63 50	66 20	63 50	66 20
Minimum	52 44	46 50	55 18	41 50	52 44	41 50
Average	56 73	53 30	60 17	60 60	58 28	55 60

The highest recovery recorded for the season was 66 20 per cent as against 63 50 per cent during the preceding year.

Recoveries of sugar from gur during the five seasons ending in 1941 follow —

	1937	1938	1939	1940	1941
United Provinces	61 26	61 40	59 09	56 73	53 30
All other Provinces	60 47	63 10	61 37	60 17	60 60
All India	60 94	62 17	60 94	58 26	55 60

The recovery per cent of sugar from gur thus records a decrease of 3 5 per cent in the United Provinces, and 2 7 per cent in India as a whole and a small increase of 0 47 per cent in the case of rest of India.

IMPORTS AND EXPORTS.

The imports of sugar during the year 1940-41 dropped sharply from 255,000 tons to 19,087 tons. The following figures explain the position.—

	1937-38	1938-39	1939-40	1940-41
		(in 1,000 lbs)		
16 D S & Above	14	33	252	19
Others	—	1	1	1
Molasses	—	2	2	—
<b>TOTAL</b>	<b>14</b>	<b>36</b>	<b>255</b>	<b>20</b>

Value of imports (in lakhs of Rs)	19	46	332	36
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The value of retained imports, that is, imports minus re-exports, in 1940-41 was the lowest, which indicates that very little imported sugar was consumed during the year under review. From Rs 45,47,410 in 1938-39, the value of retained sugar imports in 1939-40 rose to Rs 2,76,12,265, but, in the year 1940-41, this improvement received a serious setback, the value being no more than Rs 19,90,569. The actual decline in consumption of foreign sugar must have been greater than that suggested by the disparity noted above, for the declared value per unit of sugar in 1940-41 was considerably higher than in either 1939-40 or 1938-39.

Although India is still not among the countries which have been permitted an export quota under the International Sugar Agreement, exports in 1940-41 were fairly maintained. These amounted to 14,000 tons in 1940-41 as against 17,000 tons in 1939-40. Exports of sugar from India had fallen from a total value of Rs 24,17,620 in 1938-39 to Rs 7,95,718 in 1939-40. In 1940-41, however, they rose again in value to Rs 27,19,964.

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# MINERAL RESOURCES OF INDIA

**T**HE total value of ores, minerals, and metals produced in India during 1938 is estimated by the Geological Survey of India at about Rs. 34,13,95,000 or £25,477,000 (with the £ at Rs. 13.4) as against Rs. 30,49,43,000 or £22,928,000 (with the £ at Rs. 13.3) in 1937 representing an increase of nearly 12 per cent.

## COAL

Coal tops the list as the most important mineral of India. As producer of coal in the British Commonwealth, India comes second to the United Kingdom and ranks ninth in the world. The output of coal in the various Provinces in British India during 1935 to 1939 follows —

	1935	1936	1937	1938	1939
	(in tons)				
Assam	218,830	201,593	242,560	267,364	284,541
Baluchistan	4,946	3,451	10,624	14,388	16,213
Bengal	6,682,752	6,667,841	6,527,820	7,745,372	7,591,495
Bihar	12,409,497	12,015,205	13,836,717	15,364,079	14,786,392
Central Provinces	1,526,690	1,507,982	1,504,519	1,658,626	1,742,831
Orissa	27,331	31,061	47,127	44,425	58,687
Punjab	144,423	156,849	166,632	184,028	194,080
<b>TOTAL</b>	<b>21,014,649</b>	<b>20,583,982</b>	<b>22,336,729</b>	<b>25,278,282</b>	<b>24,674,247</b>

The output in the principal coalfields was as follows —

Coalfield	1937	1938	1939
	Tons	Tons	Tons
Jharia	9,601,230	11,144,462	10,529,159
Raniganj	7,196,324	8,650,920	8,542,506
Bokaro	2,309,170	2,007,016	1,983,564
Giridih	674,794	636,371	695,374
Kaiampur	534,328	625,914	566,885
Pench Valley	1,234,238	1,369,208	1,415,562
Assam	243,650	267,300	274,528

The total production of coal in 1939 amounted to 27,768,761 tons, that is 574,145 tons or 2 per cent less than the production in 1938. The former figure is exclusive of about 694,000 tons estimated to have been taken out by the miners for their own use.

The total raising of coal in British India in the official year 1940-41 was the highest recorded at 25,815,000 tons. The railway collieries produced in 1941-42, 3,236,509 tons of coal.

## GYPSUM.

Gypsum is the bedded variety of the mineral which in its crystalline form is known as selenite and when massive as alabaster. When calcined it is the wellknown "Plaster of Paris."

It is a mineral characteristic of arid conditions, deposited in lagoons and salt lakes, and in India is widely developed in immense quantities, in the cretaceous beds of Trichinopoly district, Madras, the Eocene of Baluchistan, Punjab, and the North-West Frontier Province.

**For full process of manufacture of phenyle read DISINFECTANTS & ANTISEPTICS, Re. 1/12. Industry Book Dept., Calcutta.**

and associated with the Salt Marl in the Salt Range; sub-recent deposits are those of Nagpur in Jodhpur and Jamsar in Bikaner.

The production of India has reached 70,000 tons, chiefly from Jhelum district, Punjab, Bikaner and Jodhpur States, and Trichinopoly district, Madras.

Gypsum is extensively used in cements and plasters, as paints and fillers, and as a "top-dressing" in agriculture.

### ILMENITE, MONAZITE AND ZIRCON.

These minerals are found (with rutile, garnet, &c) in the beach sands of Travancore for about a hundred miles along the coast on each side of Cape Comorin, in the extreme south of India. They are recovered by washing and magnetic separation. In 1928 the output of ilmenite attained 252,220 tons and of zircon 1,450 tons and monazite 5,221 tons.

Ilmenite is the source of titanium, a valuable white paint and used in certain alloys, zircon yields zirconia, a high grade refractory, and also an alloy material, monazite is now a by-product in the much larger production of ilmenite, due to the discovery of uses for the Cerium in monazite, in such compounds as the spark-producing elements in pocket lighters, the tips of tracer bullets, and in searchlights and ultra-violet lamps. India is now the world's main source of these minerals.

### KYANITE AND SILLIMANITE.

Kyanite and sillimanite (and andalusite) are silicates of alumina, all of which, when heated sufficiently highly change to "mullite."

Mullite is a valuable refractory material for the construction of furnaces, especially for glass manufacture and in electrical work.

Nearly all the Indian kyanite at present on the market is quarried at Lapsa Buru, Kharsawan State, Bihar, and the average production for the last three years (1936-37-38) has been approximately 27,000 tons.

Sillimanite-corundum deposits are known in Nongstoin State in Assam, and at Pipia in Rewa, but transport difficulties have been against production, there has also been a small output of sillimanite from Travancore.

### MAGNESITE.

Magnesite production commenced in India in 1902, from the "Chalk hills" in the Salem district, Madras, where the quantity of the mineral is practically inexhaustible, it occurs in a network of veins over an area of 4½ square miles, standing up to a height of 140 feet in hillocks, from which it is quarried.

The Indian production is about 26,000 tons annually, of which roughly 2,500 tons is from Mysore and the remainder from Salem.

### MANGANESE ORE.

The principal areas in which manganese ore is mined are the Balaghat, Nagpur and Bhandara districts in the Central Provinces, Sandur State and Vizagapatam in Madras, the Panch Mahals district in Bombay, Singhbhum district in Bihar and the adjoining States of Keonjhar and Bonai.

The ores are mixtures of psilomelane, braunite, and pyrolusite, and tend to form hills, so that quarrying is easily and cheaply carried out by gangs of unskilled labour. Many of the ore-bodies are of great size. The main disability under which the industry labours is the distance of the larger deposits from the nearest seaports.

For full process of manufacture of phenyle read **DISINFECTANTS & ANTISEPTICS**, Re. 1/12. Industry Book Dept., Calcutta.



### IRON.

It is true that throughout the Peninsula, which is so largely occupied by ancient crystalline rocks, quartz-haematite and quartz-magnetite schists are very common, but most of these occurrences consist of quartz and iron-ore so closely interbanded that only a highly siliceous ore of low grade (up to 40 per cent iron) can be obtained, and magnetic concentration has not been successful, owing to the intimate intermixture of the quartz, magnetite and haematite.

For a number of years, however, haematite ore-bodies of great size and richness have been recognised in a belt running through the Singhbhum district of Bihar, the Eastern States, and Orissa, and constituting what is one of the most important groups of iron-ore deposits of the world.

It has been calculated that there are 3,600,000,000 tons of this high-class haematite available, forming the upper portions of great ridges, rising 1,500 feet or more above the plain, along which for many miles the ore can be cheaply quarried in benches, by gangs of unskilled labour, and loaded straight into trucks, little or no selection being necessary.

At, for instance, Tata's Naomundi Mine, the average day's run ore is 62 per cent iron and they can arrange consignments to the works of anything up to 69 per cent iron, the latter containing only 1 per cent of impurities, theoretically pure haematite containing 70 per cent of iron and 30 per cent of oxygen. Ore containing less than 60 per cent iron is not used by the two large producing companies; the Mysore Iron and Steel Works use 55 per cent to 64 per cent ore.

Since the beginning of the present century the annual production of iron-ore in India has risen from 65,000 tons of iron smelted. India is now the second largest producer of iron and steel in the Empire, excelled only by the United Kingdom. Her reserves of ore are about three-quarters of those of the United States and are of better quality, than the bulk of the American deposits. The ores are believed to have been originally banded haematitic quartzites the quartz of which has been leached and replaced to some extent by haematite. Typically they run about 64 per cent of iron sulphur is usually below 0.03 per cent, and phosphorus varies from 0.03 to 0.08 per cent. Titanium is low.

As these reserves are much larger than the available amount of coal suitable for making metallurgical coke, it would seem that India can, sooner or later, spare great quantities of ore for export.

In 1938 264,151 tons of ore were exported to Japan. In that year, the total exports of pig-iron from India were 525,254 tons, of which 323,046 tons went to Japan, and 129,824 tons to the United Kingdom.

### STEATITE

This mineral, also known as soapstone, potstone, talc and agalmatolite, and in its powdered form as "French chalk" is one of the most variously used industrial minerals in multitudinous minor ways, from idols and slate-pencils to switchboards and chemical tanks and, powdered, from anti-adhesives, polishers and fillers to face-powders.

The annual production of India is reported as about 18,500 tons in 1938, the chief sources being Jaipur State Guntur district in Madras and Jabulpore district in the Central Provinces but there are numerous other minor deposits and probably a good deal of it does not come into the statistics.

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**BENGAL SWEETS**—a reliable guide for preparing Sandesh, Rasgulla, Mithai, Sops, etc. at home. Re. 1/12. Industry Book Dept., Calcutta

**MICA.**

India is the world's leading producer of sheet mica, which is mined mainly in Hazaribagh and Gaya districts in Bihar and Nellore in Madras, and to a minor extent in other districts in Madras and in Tonk State and Ajmer-Merwara in Rajputana, about 80 per cent. coming from Bihar and most of the remainder from Nellore.

There was a rise in the declared production of mica to 123,169 cwts valued at Rs 42 lakhs in 1938 from 104,658 cwts valued at Rs 39½ lakhs in 1937. Waste products in mica mining are quartz and felspar, which are required for glass industry. These also are available in plenty and are of fine quality.

**SULPHUR.**

Large deposits of high-grade rock sulphur have been discovered at Kohn-Sultan in Baluchistan by the Geological Survey of India.

**PETROLEUM.**

The production of petroleum in India amounted to 87,082,371 gallons valued at Rs 165½ lakhs in 1938 as against 75,657,857 gallons valued at Rs 137 lakhs in 1937, the appreciable increase in 1938 being due to an increase of over 11 million gallons from Attock and a little from Digboi.

The amount of gasoline produced from natural gas during 1938 was 496,163 gallons in the Punjab.

**GOLD.**

There was a fall in the output of gold in 1938 as compared with the previous year, the respective productions for 1937 and 1938 being 331,748.2 ozs and 321,137.8 ozs.

Average number of persons employed in the Kolar Gold Field during 1938 was 24,031 of whom 15,528 worked underground.

**COPPER.**

Copper produced from the ore mined at Ghatsila in Bihar during 1938 amounted to 5,330 tons, of which 101 tons were sold as copper and the remainder used in the rolling mill to manufacture yellow metal sheets and circles, the whole of which was sold.

**LIMESTONE**

Amongst the minerals for which accurate statistics are not available, limestone and "kankar" of which nearly 3½ million tons were quarried, would rank next to coal in importance, if weight of material won were the criterion. There has been an increased output of limestone in recent years which is due partly to its use as a flux in the iron and steel industry, and in the manufacture of cement.

**GEMS.**

In gem stones the production of diamonds, mostly from Panna State, rose slightly to 1,729 carats, valued at Rs 68,813. 174 tons of beryl were produced in Ajmer and 120 tons of garnet in Travancore. These are however, not used as gem stones, the former is used as an ore of beryllium and the latter as an abrasive.

**BAUXITE.**

Bauxite or aluminium ore occurs in the Bihar plateau in the Balaghat District, in the vicinity of Katni and in the Mandla District. Large deposits of bauxite also occur in the Bombay Presidency particularly in the Belgaum District and in the Kolhapur State.

**OTHER MINERALS.**

Other minerals of which India produces varying quantities on a commercial scale are antimony, chromite, salt, saltpetre, soda, apatite, asbestos, barytes, and felspar, fuller's earth, graphite and ochre.

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# IRON AND STEEL INDUSTRY

**I**RON and steel industry is now recognised as one of the biggest industries in India. It gives employment to about 25,000 persons and the capital invested in the industry is no less than Rs 27 crores.

Good deposits of iron ore exist in many parts of India, such as Singhbhum, Mayurbhanj, Gua, Mysore and to a small extent in Burma. The ore is of high quality. It compares favourably with the finest Lake Superior and Bibbaco ores and is considered to be better than the iron-ore mined in the United Kingdom. Various other metallic ores required in extracting iron from the iron ore are also available in abundance not far off the iron deposits. Manganese ore, for example, occurs in the Singhbhum district. Again dolomite and limestone are found within a short distance of the ore fields. As, however, deposits of coal necessary for working these sources of iron were seldom close at hand, they were neglected until quite recently. The output of iron ore in 1936 was 2,500,000 tons valued at Rs 40 lakhs.

It was the great genius of Sir J. N. Tata who saw possibilities of starting an iron and steel industry and actually gave shape and form to his ideas. Since the discovery of iron belt in 1905, the exports of pig iron were going considerably up. It was in 1907 that the Tata Iron and Steel Company was established to put a stoppage to the exports of iron ore. Pig-iron was first produced in December, 1911 and steel in 1913. In the second year of production July 1913 to June, 1914 the output of pig iron was 155,383 tons, and of finished steel 42,872 tons. During the war the demand for iron and steel increased and other companies came up to manufacture iron and steel.

For some years the production of iron ore in India had been steadily on the increase and India is now, in fact, the second largest producer in the British Empire, and yields place only to the United Kingdom. Her output is of course still dwarfed by the production in the United States (1, million tons in 1932) and France (27 million tons in 1932). The companies chiefly engaged in the extraction of iron and steel are Tata Iron and Steel Co., Ltd., (from Noamundi mines), Bengal Iron Co. Ltd., (from Pansara, Ajita, and Maclellan mines), Indian Iron and Steel Co. Ltd., (from Gua Mines), United Steel Corporation of Asia (from Keonjhar mines) and Mysore Iron Works. Of them the only company which manufactures steel is the Tata Iron and Steel Company. Besides these there are 144 indigenous furnaces at work in the Central Provinces.

The outbreak of war naturally increased the scramble for iron and steel. Efforts were made in almost all steel producing countries to increase production to the limit of productive capacity, the only difficulties which hindered the realisation of this aim was the shortage of iron ore and fuel. Owing partly to these difficulties and partly to large domestic requirements, the exports of iron and steel from the Continental producers were seriously curtailed. The only country which was able to take advantage of the stringency in the world market was the United States. In the United States, steel production showed a slight decline in the first quarter of the year under review, but was gradually stepped up during the rest of the year.

**For practical methods of manufacturing boot polish, metal polish, etc. read PROSPECTIVE INDUSTRIES. Re. 1/12, Industry Book Dept., Cal**

The Indian iron and steel industry also continued to be in a healthy state. Both the Tata Iron and Steel Company and the Indian Iron and Steel Company were fully booked with orders. The industry was placed in a very advantageous position owing to the reduction in imports during the last two years.

The engineering section of the industry received large orders from Government for different kinds of war equipment to be supplied to overseas customers. The expansion of munition production within the country as well as the stimulus given to industrial activity by war conditions also created a strong domestic demand for all products of the iron and steel industry.

#### PRODUCTION FIGURES.

The output of pig iron in India advanced from 1,567,000 tons in 1938-39 to 1,838,000 tons in 1939-40 or by 17 per cent and that of steel ingots from 977,000 tons to 1,070,000 tons or by 10 per cent. The production of finished steel, which excludes the production of some re-rolling mills using either imported or Tata's semis, also showed an increase from 726,000 tons to 804,000 tons.

#### STEEL PRODUCTION.

In so far as ordinary mild steel production is concerned the third year of war has been characterised by further increases in production in existing plant. Several extensions, which will result in a still greater output are nearing completion.

In addition, India has made very considerable strides in the production of special steels and ferroalloys, which have never previously been manufactured in this country. Production has commenced of several alloy steels required by the Royal Air Force, High carbon tool steel will soon be commercially produced in small quantities. These two latter types of steel have never before been made in India commercially.

Experiments have been carried out on the manufacture of ferro-tungsten made from Indian wolfram ore. It has been demonstrated that this can be effected and considerable ferro-alloy plant is on order. Special high frequency and forging hammers are also on order for making and working up the steel in the composition of which this tungsten plays such an important part.

Vanadium has been produced experimentally and the plant is under erection for extracting vanadium from Indian ore. This vanadium will take its part alongside tungsten in the composition of high speed steel. Titanium one of the components in modern stainless steels is also under consideration for extraction from Indian rutile.

Bullet-proof plate of a new composition has been successfully manufactured in large quantities. While it has the same first class bullet-resisting qualities as the old composition, there is a saving of some 50 per cent of the alloys previously used.

One great feature of this third year of war was the installation of plants for manufacturing more highly raw steel already made. Many other similar projects are under active consideration with a view to making India more independent of foreign imports. The production of aluminium in India will begin shortly on a scale which is expected ultimately to enable India to meet her requirements of this metal.

The manufacture of ferro-silicon, which is essential in the composition of all steels has been established, and at least half of India's requirements will ultimately be met from this source.

A new electric furnace is nearing completion. It is hoped that this will produce considerable quantities of ferro-chrome. Chromium takes a part in the composition of most of the alloy steels.

For practical methods of manufacturing boot polish, metal polish, etc. read **PROSPECTIVE INDUSTRIES**. Re. 1/12. Industry Book Dept., Cal.

# COMPANY POSITION

[Guide to Abbreviations used in this section—Cap = Capital, Rvrs = Reserve and other Funds, Prov. for tax = Provision for taxations; Liab = Liabilities, Pro = Profit, Blo = Block, Stor = Stores, Stoc = Stocks, Debn = Debentures; Deb = Debts and Advances, Invs = Investments, Div = Dividend, Pref = preference]

**Andhra Cement Co, Ltd**—(Managing Agents The Andhra Engineering Co, Ltd, Vizagapatam)—Audited accounts for the year ended 30th June, 1942—Cap Rs 12,41,470, Debn, Rs 6,15,842, Rvrs Rs 96,876, Liab Rs 1,63,211, Pro Rs 6,095, Blo Rs 15,76,373, Stor Rs 81,950, Stoc Rs 1,10,335, Deb Rs 1,78,614, Cash Rs 46,136

**Apollo Mills Ltd**—(Agents Messrs E D Sassoon & Co, Ltd, Bombay)—Audited accounts for the year ended 31st December, 1942—Cap Rs 50,00,000, Liab Rs 37,22,436, Pro Rs 3,22,230, Blo Rs 26,63,241, Stor Rs 5,23,640, Stoc Rs 14,93,303, Deb Rs 4,39,323, Invs Rs 5,29,367, Cash Rs 33,95,792, Div As 4½ per share

**Associated Cement Companies, Ltd.**—(Managing Agents Cement Agencies Ltd, Bombay)—Audited accounts for the year ended 31st July, 1942—Cap Rs 7,05,42,100, Rvrs Rs 62,29,872, Prov for tax Rs 56,20,187, Liab 48,20,376, Pro Rs 58,96,024, Blo Rs 4,86,01,270, Stor Rs 93,94,441, Stoc Rs 76,45,952, Deb 62,54,069, Invs Rs 1,59,19,592, Cash 51,10,675, Div Rs 8 per share

**Bairampur Sugar Co, Ltd**—(Managing Agents Messrs Begg, Su theland & Co, Ltd, Cawnpore)—Audited accounts for the year ended 30th June, 1942—Cap Rs 28,00,000, Rvrs Rs 5,17,179, Liab Rs 13,01,611, Blo Rs 23,94,169, Stor Rs 4,03,052, Stoc Rs 5,05,652, Deb Rs 11,00,277, Invs Rs 1,06,654, Cash Rs 25,512

**Belapur Company, Limited**—(Managers Messrs W H Brady & Co, Ltd Bombay)—Audited accounts for the year ended 30th September, 1942—Cap Rs 11,99,600, Debn Rs 4,00,000, Rvrs Rs 1,52,985, Prov for Tax Rs 2,05,000, Liab Rs 10,03,486, Pro Rs 83,882, Blo Rs 11,94,578, Stor Rs 2,94,710, Stoc Rs 3,11,555, Deb Rs 10,70,196, Invs Rs 1,41,680, Cash Rs 31,634, Div Rs 6 per share

**Buland Sugar Co, Ltd**—(Managing Agents Messrs Govan Bros, Ltd, Rampur)—Audited accounts for the year ended 31st May, 1942—Cap Rs 18,00,000, Rvrs Rs 7,53,031, Liab Rs 10,25,696, Pro Rs 8,24,171, Blo Rs 19,03,159, Stor Rs 3,24,114, Stoc Rs 15,46,539, Deb Rs 4,32,728, Invs Rs 50,000, Cash Rs 1,31,278, Div 20 per cent

**Bombay Suburban Electric Supply, Ltd**—(Agents Killhek, Nixon & Co Bombay)—Audited accounts for the year ended 31st March, 1942—Cap Rs 26,44,475, Rvrs Rs 3,42,390, Liab Rs 5,56,329, Pro Rs 1,07,866, Blo Rs 29,04,221, Stor Rs 4,73,540, Deb Rs 1,06,281, Cash Rs 7,618, Div Rs 7 per share

**British India Corporation, Ltd.**—(Chairman Mr R Menzies, O B, V D, C A, Cawnpore)—Audited accounts for 1942—Cap Rs 12,25,15,000, Rvrs Rs 77,84,773, Prov for tax Rs 1,20,96,269, Liab Rs 1,04,96,927, Pro Rs 36,34,789, Blo Rs 59,77,168, Stor Rs 32,35,620, Stoc Rs 1,59,87,221, Deb Rs 1,56,84,699, Invs Rs 49,07,788, Cash Rs 7,35,262, Div 8 % on pref shares and As 4 per ordinary share

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**Burn & Co., Ltd.**—(Managing Agents Messrs Burn & Co, Calcutta)—Audited accounts for the year ended 30th April, 1942—Cap Rs. 70,00,000, Rvrs Rs 38,62,183, Prov for Tax Rs 17,38,771, Liab Rs 1,01,95,769, Pio Rs. 9,77,563, Blo. Rs 42,89,106, Stoi Rs 14,06,956, Deb Rs 60,92,288, Invts Rs 9,43,391, Cash Rs 4,97,515, Div Rs 20 per share

**Carew & Co., Ltd.**—(Managing Agents: Messrs. Lyall Marshall & Co, Calcutta)—Audited accounts for the year ended 30th June, 1942—Cap Rs 40,00,000, Debn Rs. 25,00,000, Rvrs Rs 8,53,444, Prov. for Tax Rs 2,90,000, Liab Rs 17,79,566, Pro Rs 2,54,510, Blo Rs. 56,14,075, Stoi Rs 11,30,877, Stoc Rs 15,12,050, Deb Rs 13,25,240, Invts Rs 16,283, Cash Rs 78,995.

**Cawnpore Sugar Works, Ltd.**—(Managing Agents. Messrs Begg Sutherland & Co, Ltd, Cawnpore)—Audited accounts for the year ended 31st October, 1942—Cap Rs 25,00,000, Rvrs Rs 28,68,267, Prov. for tax Rs 6,43,075, Liab Rs 5,83,400, Pro Rs 4,12,133, Blo Rs. 26,98,927, Stoi Rs 9,72,684, Stoc Rs 2,98,739, Deb Rs 5,89,621, Invts Rs 12,28,348, Cash Rs 12,18,556, Div 8 per cent on pref shares, Re 1-8 per ordinary share

**Central India Spg., Wvg. & Mfg. Co., Ltd.**—(Managing Agents Messrs Tata Sons, Ltd, Bombay)—Audited accounts for the year ended 30th June, 1942—Cap Rs 96,87,500; Rvrs Rs 1,81,22,277, Prov for tax Rs 43,94,909, Liab Rs 80,58,219, Pio Rs 5,20,373, Blo Rs 2,04,31,312, Stoi Rs 26,48,838, Stoc Rs 1,13,49,638, Deb Rs 14,31,551, Invts Rs 47,39,084, Cash Rs 1,82,960, Div Rs 12-8 per pref share and Rs 6 per ordinary share

**Century Spinning and Weaving Co, Ltd.**—(Agents Messrs Chuni Lal V Mehta & Co, Bombay)—Audited accounts for the year ended 31st December, 1942—Cap Rs 27,35,500, Rvrs Rs 1,84,81,137, Prov. for tax Rs 1,05,08,795, Liab Rs 30,60,134 Pio Rs 9,61,049, Blo Rs. 1,57,38,662, Stoi Rs 15,29,991, Stoc Rs 70,10,266, Deb Rs 17,13,462; Invts Rs 1,55,595, Cash Rs 96,08,639, Div Rs 38 per share

**Champarun Co, Ltd.**—(Managing Agents Messrs Begg, Sutherland & Co, Ltd, Cawnpore)—Audited accounts for the year ended 30th June, 1942—Cap Rs 18,00,000, Rvrs Rs 19,31,498; Prov. for tax. Rs 4,12,000, Liab Rs 15,20,067, Pio Rs 4,09,967, Blo Rs 19,47,876; Stoi Rs 5,59,699, Stoc Rs 6,25,212, Deb Rs 24,96,526, Invts: Rs. 3,75,250; Cash Rs 68,969, Div Re 1-8 per share

**Chembra Peak Estates, Ltd.**—(Managing Agents and Secretaries: Messrs Pence, Leslie & Co, Ltd, Calicut)—Audited accounts for the year ended 31st March, 1942—Cap Rs 3,73,360, Rvrs Rs 2,57,792; Prov for tax Rs 46,281, Liab Rs 77,899; Pro Rs 1,84,040, Blo Rs 5,76,001, Stoi Rs 17,612, Stoc Rs 30,495, Deb Rs 13,616; Invts Rs 1,94,516, Cash Rs 1,07,132, Div 30 per cent

**Cochin Malabar Estates Ltd.**—(Managing Agents and Secretaries Messrs Pearce Leslie & Co, Ltd, Calicut)—Audited accounts for the year ended 28th February, 1942—Cap: Rs 8,28,707, Rvrs Rs 3,16,468; Liab Rs 1,25,594, Pro Rs 3,57,118, Blo Rs. 8,88,276, Stoi Rs. 44,034, Stoc Rs 66,850, Deb Rs 2,927, Invts Rs 2,91,006; Cash Rs 3,31,576, Div 35 per cent

**Colaba Land and Mill Co, Ltd.**—(Managing Agents Messrs W H Brady & Co, Ltd, Bombay)—Audited accounts for the year ended 31st December, 1942—Cap Rs 28,00,000, Rvrs Rs 14,68,516, Prov for tax Rs 5,18,992, Liab Rs 26,76,929, Pro Rs 24,55,249, Blo Rs 58,09,071; Stoi Rs 6,82,311, Stoc Rs 18,15,942, Deb Rs 5,05,377, Cash Rs 11,06,985, Div Rs 10 per share

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**Darjeeling Ropeway Co., Ltd.**—(Managing Agents Messrs Goenka & Co, Kulseong)—Audited accounts for the year ended 31st March, 1942—Cap Rs 2,47,325, Debn Rs 1,02,334, Rvrs Rs 201, Liab Rs 28,606, Blo Rs 3,29,236, Stoi Rs. 5,450, Deb Rs 2,817, Cash Rs 476.

**Dyer Meakin Breweries, Ltd.**—(Secretary Mr L G Heasman, Solan Brewery)—Audited accounts for the year ended 31st March, 1942—Cap Rs 8,10,315, Rvrs Rs 2,85,137, Prov for tax Rs 4,50,000, Liab Rs 4,53,552, Pro Rs 1,57,289, Blo Rs 2,88,590, Stoi Rs 2,36,254, Stoc Rs 7,84,791, Deb Rs 5,08,688, Invt Rs 47,482, Cash Rs 2,90,128, Div 12½ per cent

**Empire Dyeing and Manufacturing Co., Ltd.**—(Managing Agents Messrs W H Biady & Co, Ltd, Bombay)—Audited accounts for the year ended 31st December, 1942—Cap Rs 45,000, Rvrs Rs 3,50,397, Prov for tax Rs 2,93,234, Liab Rs 1,28,133, Pro Rs 1,05,997, Blo Rs 1,81,970, Stoc Rs 3,24,334, Stor Rs 16,932, Deb Rs 1,02,282, Invt Rs 47,826, Cash Rs 2,49,417, Div Rs 10 per share

**Frank Ross & Co, Ltd.**—(General Manager and Secretary Mr J S Jebb, Calcutta)—Audited accounts for the year ending 28th February, 1942—Cap Rs 3,30,000, Rvrs Rs 5,946, Liab Rs 84,313, Pro Rs 50,172, Blo Rs 20,250, Stoc Rs 2,85,239, Deb Rs 1,17,800, Cash Rs 47,142, Div 8½ per cent.

**Gwalior Sugar Co, Ltd**—(Managing Agents Messrs Govan Bros, Ltd, Gwalior)—Audited accounts for the year ended 30th June, 1942—Cap Rs 25,00,000, Liab Rs 2,24,792, Blo Rs 23,87,390, Stoi Rs 2,23,288, Stoc Rs 21,339, Deb Rs 94,592, Cash Rs 55,804

**Hingir-Rampur Coal Co, Ltd.**—(Agents Messrs Killick, Nixon & Co, Bombay)—Audited accounts for the year ended 30th June, 1942—Cap Rs 4,29,400, Rvrs Rs 35,436, Liab Rs 1,53,790, Pro Rs 36,036, Blo Rs 4,56,235, Stoi Rs 71,557, Stoc Rs 2,421, Deb Rs 62,877, Invt Rs 51,878, Cash Rs 9,694, Div Rs 3-12 per share

**Indian Cable Co., Ltd.**—(Managing Agents Messrs British Insulated Cables, Ltd, Calcutta)—Audited accounts for the year ended 31st December, 1942—Cap Rs 50,00,000, Rvrs Rs 7,86,710, Prov for tax Rs 56,20,187, Liab Rs 48,20,376, Pro Rs 58,96,024, Blo Rs 4,86,01,270, Stor Rs 93,94,441, Stoc Rs 76,45,952, Deb Rs 62,54,069, Invt Rs 1,59,19,592, Cash Rs 51,10,676, Div—Pref shares Rs 10 per cent, Ord shares 10 per cent

**Indian Wood Products Co, Ltd**—(Managing Agents Messrs Gillanders Arbuthnot & Co, Calcutta)—Audited accounts for the year ended 30th September, 1942—Cap Rs 12,00,000, Rvrs Rs 2,87,195, Liab Rs 8,51,667, Pro Rs 1,66,572, Blo Rs 2,84,089, Stor Rs 40,570, Stoc Rs 2,22,713, Deb Rs 1,23,966, Invt Rs 15,38,134, Cash Rs 2,95,962, Div 13 per cent on ordinary shares

**Industrial Investment Trust**—(Secretaries Messrs Prem Chand Roy Chand & Sons, Bombay)—Audited accounts for the year ended 31st December, 1942—Cap Rs 50,00,000, Rvrs Rs 7,86,710, Prov for tax Rs 60,900, Liab Rs 14,509, Pro Rs 2,41,825, Invt Rs 54,76,182, Adv Rs 543, Cash Rs 6,27,218, Div 4½ per cent

**J K Cotton Manufacturers Ltd**—(Managing Agents Messrs Juggal Kamlapat, Cawnpore)—Audited accounts for the year ended 30th September, 1942—Cap Rs 12,50,000, Prov for tax Rs 4,73,000, Liab Rs 11,96,815, Pro Rs 1,61,502, Blo Rs 19,08,192, Stoi Rs 36,832, Stoc Rs 8,69,597, Deb Rs 2,22,930, Invt Rs 14,180, Cash Rs 2,70,786, Div Rs 12 per share

**"Dental Preparations"**—An invaluable guide to manufacturers of tooth powders, pastes, mouth-washes, etc Re 1/12. Industry Book Dept, Cal

**Jam Shri Ranjitsinghji Spg & Wvg. Mills Co., Ltd.**—(Managing Agents Messrs Lalaji Narani & Co., Bombay)—Audited accounts for the year ended 30th June, 1942—Cap Rs 7,85,050, Rvrs Rs 28,88,021, Prov for tax Rs 1,22,905; Liab. Rs 6,44,731, Pio Rs 11,05,275, Blo Rs 32,42,477, Stoc 4,16,276, Stoc 13,04,422, Deb. Rs 1,64,998; Invts Rs 451, Cash Rs 4,17,361, Div. Rs. 200 per share

**Jost's Engineering Co., Ltd.**—(Managing Director Mr. E. J. C. Herring, Bombay)—Audited accounts for the year ended 31st March, 1942—Cap Rs 2,00,000, Rvrs Rs 3,55,250, Liab Rs 2,19,004, Pio Rs. 75,422, Blo Rs 25,624, Stoc Rs. 1,34,015, Deb Rs 3,80,868, Invts. Rs. 2,29,187, Cash Rs 79,982, Div 5 per cent

**Kalasa Tea and Produce Co., Ltd.**—(Managing Agents Messrs. Peirce, Leslie & Co., Ltd., Calcutt)—Audited accounts for the year ended 31st March, 1942—Cap Rs 3,60,000, Rvrs Rs 59,368, Prov for tax Rs 44,040, Liab Rs 33,382, Pio Rs 1,03,242, Blo Rs 4,83,013, Stoc Rs 28,280, Stoc Rs 29,765, Deb Rs 14,416, Cash Rs 44,558, Div 6 per cent

**Kalpetta Estates, Ltd.**—(Managing Agents Messrs A V Thomas & Co., Ltd., Alleppey)—Audited accounts for the year ended 30th April, 1942—Cap Rs 2,70,000, Rvrs Rs 3,46,912, Liab Rs 33,453, Pio Rs 1,39,951, Blo Rs 6,53,233, Stor Rs 42,238, Stoc Rs 56,433; Deb Rs 29,064, Invts Rs 3,500, Cash, Rs 5,848, Div: 25 per cent

**Kangra Valley Slate Co., Ltd.**—(Managing Director Rai Bahadur Ram Ratan Seth, Lahore)—Audited accounts for the year ended 30th June, 1942—Cap Rs 1,57,600, Rvrs Rs 1, 19,356, Prov for tax Rs 11,000; Liab. Rs 17,339, Pro Rs 38,926, Blo Rs. 99,982, Stoc Rs 14,301; Deb Rs 8,324, Invts Rs 1,47,629, Cash Rs 73,985, Div 15 per cent

**Khatan Makanji Spg & Wvg Co., Ltd.**—(Managing Agents: Messrs Khatan Makanji & Co., Bombay)—Audited accounts for the year ended 30th June, 1942—Cap Rs 29,95,000, Rvrs Rs 15,53,904, Liab Rs 48,27,968, Pio Rs 22,47,737 Blo Rs 40,88,429, Stor Rs 19,27,611, Stoc Rs 40,03,454, Deb Rs. 8,87,444, Invts Rs 2,041, Cash. Rs 7,65,630, Div Rs 6 per pref share and Rs 17 per ordinary share

**Kothari Textiles Ltd**—(Managing Agents Messrs Kothari & Sons, Madras)—Audited accounts for the year ended 30th June, 1942—Cap Rs 7,99,750, Rvrs Rs 2,33,341, Prov for tax Rs 2,78,500, Liab Rs 4,84,965, Pio Rs 1,71,661, Blo Rs. 9,15,212, Stoc Rs 44,161, Stoc Rs 4,55,371, Deb Rs 2,22,719, Cash Rs 3,30,754; Div 6 per cent on pref shares and 10 per cent on ordinary shares

**McKenzie Ltd**—(Managing Director J Wylie, Esq., Bombay)—Audited accounts for the year ended 31st July, 1942—Cap Rs 11,00,000, Rvrs Rs 10,26,601, Liab Rs 14,27,722, Pio Rs 1,84,269, Blo Rs 13,90,899, Stor Rs 25,285, Stoc Rs 9,56,859 Deb Rs 1,66,553; Invts Rs 98,701, Cash Rs 41,292, Div 5½ % on pref share and Rs 7 per ordinary share

**Meyer Sassoon Mills, Ltd.**—(Agents E D Sassoon & Co. Ltd., Bombay)—Audited accounts for the year ended 31st December, 1942—Cap Rs 40,00,000, Rvrs Rs 7,50,000, Liab Rs 47,20,436, Pro Rs 2,67,734, Blo Rs 30,27,557, Stor Rs 3,57,914, Stoc Rs 35,68,560, Deb Rs 2,80,835, Invts Rs 50,000, Cash Rs 24,47,304, Div Rs 10 per share

**Midland Rubber & Produce Co., Ltd.**—(Managing Agents Messrs A V Thomas & Co., Ltd., Alleppey)—Audited accounts for the year ended 31st March, 1942—Cap Rs 11,85,000, Debn Rs 1,00,000, Rvrs

**"Dental Preparations"**—An invaluable guide to manufacturers of tooth powders, pastes, mouth-washes, etc. Re. 1/12. Industry Book Dept, Cal.



## 316 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Rs 97,819, Liab Rs 42,693, Pto Rs 1,26,376, Blo Rs 13,12,615,  
Stor Rs 42,825, Stoc Rs 39,507, Deb Rs 80,479, Invts Rs 17,272,  
Cash Rs 59,190, Div 7½%

**Muir Mills Co., Ltd.**—(Managing Director K J D Price, Esq.,  
Cawnpore)—Audited accounts for the year ended 31st December, 1942—  
Cap Rs 30,00,000, Rvrs Rs 42,14,700, Liab Rs 82,39,888, Pto Rs  
10,45,792, Blo Rs 27,35,518, Stor Rs 16,43,247, Stoc Rs 49,05,267,  
Deb Rs 13,56,432, Invts Rs 26,97,258, Cash Rs 31,62,658

**Murree Brewery Co., Ltd.**—(Secretary M E D Dignasse, Rawal-  
pindi)—Audited accounts for the year ended 31st August, 1942—Cap  
Rs 12,00,000, Rvrs Rs 18,01,600, Liab Rs 14,94,386, Pro Rs 4,26,212,  
Blo Rs 10,94,254, Stor Rs 1,78,816, Stoc Rs 8,64,345, Deb Rs  
2,58,889, Invts Rs 10,35,477, Cash Rs 9,95,417, Div 10%

**Mysore Paper Mills Ltd.**—(Secretary Mr D Raja Rao, Bangalore)  
—Audited accounts for the year ended 30th June, 1942—Cap Rs  
25,00,000, Rvrs Rs 10,724, Prov for tax Rs 92,000, Liab Rs  
17,05,687, Pto Rs 1,56,381, Blo Rs 30,75,456, Stor Rs 8,50,618,  
Stoc 1,86,901, Deb Rs 8,00,383, Invts Rs 1,463, Cash Rs 49,971,  
Div 5%

**National Iron & Steel Co., Ltd.**—(Managing Agents Messrs  
Nursing & Co, Calcutta)—Audited accounts for the year ended 31st  
March, 1942—Cap Rs 25,00,000, Debn Rs 2,50,000, Rvrs Rs 9,596,  
Liab Rs 14,86,098, Pto Rs 8,28,583, Blo Rs 16,32,125, Stor Rs  
1,90,065, Stoc Rs 9,20,237, Deb Rs 7,95,576, Invts Rs 13,39,552,  
Cash Rs 1,96,722, Div Re 1 per share

**Nellithanam Rubber & Produce Co., Ltd.**—(Managing Director D  
M K Antony, Alleppey)—Audited accounts for the year ended 31st  
March, 1942—Cap Rs 1,96,760, Liab Rs 9,803, Pro Rs 38,362, Blo  
Rs 1,84,007, Stoc Rs 7,573, Deb Rs 20,394, Invts Rs 7,368, Cash  
Rs 25,583, Div 3½ % on ordinary shares

**New City of Bombay Manufacturing Co., Ltd.**—(Managing Agents  
Messrs W H Brady & Co, Ltd, Bombay)—Audited accounts for the  
year ended 31st December, 1942—Cap Rs 12,00,000, Prov for tax Rs  
2,35,810, Liab Rs 15,12,146, Pto Rs 27,90,087, Blo Rs 27,14,169,  
Stor Rs 4,06,347, Stoc Rs 16,91,740, Deb Rs 1,14,386, Cash Rs  
8,11,401, Div Rs 25 per share

**New Great Eastern Spinning and Weaving Co., Ltd.**—(Secretaries  
and Agents Messrs W H Brady & Co, Ltd, Bombay)—Audited ac-  
counts for the year ended 31st December, 1942—Cap Rs 23,00,000,  
Rvrs Rs 8,75,268, Prov for tax Rs 5,10,897, Liab Rs 18,03,549,  
Pto Rs 28,56,930, Blo Rs 31,12,811, Stor Rs 7,64,047, Stoc Rs  
20,88,805, Deb Rs 6,85,779, Cash Rs 16,95,184, Div Rs 25 per  
share

**New Savan Sugar & Gur Refining Co., Ltd.**—(Managing Agents  
Messrs Andrew Yule & Co, Ltd, Calcutta)—Audited accounts for the  
year ended 31st May, 1942—Cap Rs 11,00,000, Rvrs Rs 3,00,000;  
Prov for tax Rs 81,856, Liab Rs 4,62,120, Pro Rs 1,03,304, Blo  
Rs 8,00,000, Stoc Rs 8,20,567, Stor Rs 1,42,338, Deb Rs 26,735  
Cash Rs 2,57,640, Div 7½ %

**New Swadeshi Sugar Mills Ltd.**—(Managing Agents Messrs Cot-  
ton Agents Ltd., Bombay)—Audited accounts for the year ended 30th  
June, 1942—Cap Rs 7,25,000, Rvrs Rs 3,96,333, Prov for tax Rs  
73,860, Liab Rs 10,62,586, Pto Rs 2,58,098, Blo Rs 8,01,083, Stor  
Rs 2,04,350, Stoc Rs 11,80,266, Deb Rs 3,03,077, Invts Rs 19,000,  
Cash Rs 8,121

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sorts of insecticides & medicated cottons Re 1/12 Industry, Calcutta

**Nilgiri Neerugundi Estates Co., Ltd.**—(Managing Agents and Secretaries Messrs Peirce, Leslie & Co, Ltd, Calicut)—Audited accounts for the year ended 30th June, 1942—Cap Rs 2,58,683, Debn Rs 1,66,000, Rvrs Rs 85,291, Prov for tax Rs 8,094, Liab Rs 66,277, Pio. Rs 88,094, Blo Rs 5,15,670, Stoi Rs 5,586, Stoc Rs 43,427, Deb Rs 6,909, Invt Rs 75,859, Cash Rs 25,489, Div 15 %

**Oudh Sugar Mills Ltd.**—(Managing Agents Messrs Cotton Agents, Ltd, Bombay)—Audited accounts for the 31st July, 1942—Cap Rs 19,46,200, Debn Rs 53,500, Rvrs Rs 8,80,931, Prov for Tax Rs 2,40,306, Liab Rs 14,74,771; Pro Rs 5,69,284, Blo. Rs 13,73,260, Stoi Rs 2,83,058, Stoc Rs 14,05,195, Invt Rs 6,87,100, Cash Rs. 10,442

**Osmanshahi Mills, Ltd.**—(Managing Agent C S Tyabjee Esq., Hyderabad)—Audited accounts for the year ended 5th October, 1942—Cap. Rs 45,00,500, Debn Rs 5,50,301, Rvrs Rs 3,71,696, Liab Rs 10,68,733, Pro Rs 8,14,943, Blo Rs 29,43,122, Stoi Rs 4,47,757, Stoc Rs 27,59,435, Deb Rs 6,19,042, Invt Rs 4,56,429, Cash Rs 80,388, Div Rs 9 per share

**Penninsular Plantations, Ltd.**—(Secretaries Messrs Sarma Bros, Ltd.)—Audited accounts for the year ended 28th February, 1942—Cap Rs 6,00,000, Rvrs Rs 500, Liab Rs 1,928, Pro Rs 30,340, Blo Rs 5,36,114, Stoi Rs 1,517, Stoc Rs 9,732, Deb Rs 2,550, Cash Rs 65,218, Div 5 %

**Peria Karamalai Tea & Produce Co, Ltd.**—(Agents and Secretaries Messrs Peirce Leslie & Co, Ltd, Calicut)—Audited accounts for the year ended 31st March, 1942—Cap Rs 12,43,462, Rvrs Rs 4,01,692, Liab Rs 1,13,251, Pro Rs 2,76,991, Blo Rs 12,82,035, Stoi Rs 64,452, Stoc Rs 88,098, Deb Rs 1,47,081, Invt Rs 3,90,179, Cash Rs 63,551, Div 10 %

**Purtabpore Co, Ltd.**—(Managing Agents Messrs Begg Sutherland & Co, Ltd, Calcutta)—Audited accounts for the year ended 31st October, 1942—Cap Rs 15,00,000, Rvrs Rs 6,56,209, Prov for tax Rs 1,37,000, Liab Rs 9,32,988, Pio Rs 67,757, Blo Rs 15,86,477, Stoi Rs 4,97,538, Stoc Rs 62,192, Deb Rs 4,53,762, Invt Rs 26,441, Cash Rs 47,121, Div 10 % on pref. shares

**Rajaguri Rubber & Produce Co., Ltd.**—(Managing Agents Messrs A V Thomas & Co, Alleppey)—Audited accounts for the year ended 30th June, 1942—Cap Rs 13,47,425, Rvrs Rs 70,700, Liab Rs 12,998, Pio Rs 1,36,081, Blo Rs 14,12,095, Stoi Rs 4,141, Stoc Rs 84,715, Deb Rs 4,136, Invt Rs 6,191, Cash Rs. 55,926, Div 7½ %

**Raza Sugar Co, Ltd.**—(Managing Agents Messrs Govan Bros, Ltd, Rampur)—Audited accounts for the year ended 31st May, 1942—Cap Rs. 15,00,000, Rvrs Rs 11,05,299, Liab Rs 9,56,859, Pio Rs 7,19,289, Blo Rs 16,61,954, Stoi Rs. 4,07,853, Stoc Rs. 15,78,190, Deb Rs 5,04,881, Invt Rs 50,000, Cash Rs 12,967, Div 20 %

**Ryam Sugar Co, Ltd.**—(Managing Agents Messrs Begg Sutherland & Co, Ltd, Cawnpore)—Audited accounts for the year ended 30th June, 1942—Cap Rs 4,00,000, Rvrs Rs 8,17,619, Debn Rs 3,75,000, Prov for tax Rs 90,000, Liab Rs 8,47,112, Pio Rs 29,291, Blo. Rs 7,10,987, Stoi Rs 3,10,052, Stoc Rs 13,699, Deb Rs 10,34,886; Invt Rs 3,69,387, Cash Rs 40,011; Div Rs 8 per share.

**Samastipur Central Sugar Co, Ltd.**—(Managing Agents Messrs Begg, Sutherland & Co, Ltd, Cawnpore)—Audited accounts for the year ended 30th June, 1942—Cap Rs 11,99,000, Debn Rs 4,00,000, Rvrs Rs 1,52,985, Prov for tax Rs 2,05,000, Liab Rs 10,03,486,

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## 318 INDUSTRY YEAR BOOK & DIRECTORY, 1943

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Pro Rs 83,882; Blo Rs 11,94,578, Stoi Rs 2,94,710, Stoc Rs 3,11,555, Deb Rs 10,70,196, Invt Rs 1,41,680, Cash Rs 31,634, Div As 8 per share

**Sholapoor Spinning and Weaving Co., Ltd.**—(Agents Messrs Morarka & Co, Bombay)—Audited accounts for the year ended 31st March, 1942—Cap Rs 16,00,000, Debn Rs 36,17,129, Rvrs Rs 1,45,64,480, Liab Rs 27,10,211, Pro Rs 32,80,988, Blo Rs 1,47,47,662, Stoi Rs 14,12,160, Stoc Rs 58,83,976, Deb Rs 27,98,098, Invt Rs 8,20,599, Cash Rs 1,10,313, Div Rs 300 per whole share and Rs 150 per half share

**Shree Sajjan Mills, Ltd.**—(Agents Messrs Gopaldas Liladhar & Co, Ltd, Bombay)—Audited accounts for the year ended 31st March, 1942—Cap Rs 12,00,000, Rvrs Rs 8,59,000, Liab Rs 5,48,560, Pro 2,57,053, Blo Rs 17,78,938, Stor Rs 3,71,562, Stoc Rs 16,46,539, Deb Rs 1,74,908, Cash Rs 75,698, Div Rs 20 per share

**Spencer & Co., Ltd**—(Secretary C W Stephenson Esq, Madras)—Audited accounts for the year ended 30th June, 1942—Cap Rs 94,01,900, Rvrs Rs 6,10,871, Liab Rs 61,34,597, Pro Rs 7,83,049, Blo Rs 52,01,086, Stor Rs 5,92,268, Stoc Rs 55,04,341, Deb Rs 33,01,176, Invt Rs 2,01,750, Cash Rs 21,37,796, Div 8 % on ordinary share

**Sri Krishnarajendra Mills, Ltd**—(Secretary A N Chaluvaraya, Esq, Mysore)—Audited accounts for the year ended 31st December 1942—Cap Rs 19,27,988, Rvrs Rs 2,38,132, Prov for tax Rs 2,05,000, Liab Rs 18,74,158, Blo Rs 18,69,790, Stoi Rs 4,26,361, Stock Rs 16,76,919, Deb Rs 3,37,483, Invt Rs 30,409, Cash Rs 21,286, Div 6 % per share

**Thirumbadi Rubber Co., Ltd.**—(Agents and Secretaries Messrs Pence, Leshe & Co, Ltd, Calicut)—Audited accounts for the year ended 30th September, 1942—Cap Rs 3,05,100, Rvrs Rs 55,105, Prov for tax Rs 883, Liab Rs 19,497, Pro Rs 1,08,591, Blo Rs 17,85,000, Stor Rs 6,08,126, Stoc Rs 37,789, Deb Rs 4,63,762, Invt Rs 4,80,694, Cash Rs 5,16,105, Div 17½ %

**Travancore Sugars & Chemicals Ltd**—(Secretaries and Treasurers Messrs Peery & Co, Ltd, Tiruvandrum)—Audited accounts for the year ended 31st July, 1942—Cap Rs 7,15,171 Rvrs Rs 1,50,843, Liab Rs 2,31,428, Pro Rs 1,75,793, Blo Rs 4,54,720, Stoi Rs 1,91,389, Stoc Rs 3,42,267, Deb Rs 71,203, Cash Rs 2,12,371, Div 7½ p c

**United Breweries Ltd**—(Secretary M R G N Price, Madras)—Audited accounts for the year ended 31st March, 1942—Cap Rs 6,00,000, Rvrs Rs 1,09,600, Liab Rs 4,87,505, Pro Rs 73,281, Blo Rs 3,08,762, Stor Rs 2,82,378, Stoc Rs 54,326, Deb Rs 1,54,516, Invt Rs 1,93,550, Cash Rs 2,76,854, Div 12 %

**Vasanta Mills Ltd**—(Managing Agents and Secretaries Messrs R K Shanmukham Chetty & Bros, Singanailai)—Audited accounts for the year ending 31st December, 1942—Cap Rs 11,50,000, Rvrs Rs 4,57,800, Prov for tax Rs 15,15,000, Liab Rs 10,93,496, Pro Rs 1,93,574, Blo Rs 12,23,698, Stor Rs 3,82,222, Stoc Rs 20,36,418, Deb Rs 1,66,250, Invt Rs 41,591, Cash Rs 4,69,691, Div 25 % on ordinary shares

**Velliamattam Rubber Co, Ltd**—(Managing Agents Messrs A V Thomas & Co, Ltd, Alleppey)—Cap Rs 1,00,000 Rvrs Rs 1,06,000, Liab Rs 5,327, Pro Rs 43,195, Blo Rs 1,35,381, Stor Rs 16,647, Stoc Rs 7,723, Deb Rs 3,659, Invt Rs 8,366, Cash Rs 32,746, Div 7½ %

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Lots of useful formulae for home application are included in  
**DOMESTIC RECIPES** As 5 Industry Book Dept., Shambazar, Cal

## Indian Stock Exchanges in 1942

**I**N the year 1942, Indian Stock Exchanges had to pass through a period of unprecedented difficulty. The internal political situation and the war in the Far East continued to cast a deteriorating influence over the business transactions in stock exchanges throughout the year.

The most outstanding feature ruling in India Stock Exchanges in 1942, was the increasing hold of the official controls exercised in determining the activities of the operators. When the devastating fall in prices of stocks and shares became rampant, the stock markets were brought under the sphere of economic control. This step stemmed the tide of sharp fall in stock and share prices in Calcutta and Bombay Stock Exchanges.

The period from 1st January to mid-April ushered in far-reaching war developments in the Far East and Burma occurring in quick succession in favour of Japanese supremacy, and gave rise to panic, confusion and a feeling of despair among the investors and the speculators alike. Many of the shares in Calcutta established their lowest record at this time as the operators were in a hurry to square up their books and quit the city for safer destinations. In Bombay Stock Exchange, prices continued to decline and the volume of business done was on a very small scale. Minimum prices were enforced in Bombay for all the shares, and, in Calcutta "floors" fixed towards the close of 1941, were revised in a downward direction. The introduction of minimum prices, which proved to be helpful in the initial stages, considerably affected the turnover, as buyers were not forthcoming to do business at this rate. The Government of India refused to fix minimum prices of shares officially as was done in the case of Government Loans. The agitation for removal of minimum prices of shares in Bombay deepened and the Bombay Stock Exchange authorities removed the minimum prices of shares from 27th March, 1942.

During mid-April to July, the market to some extent rallied to confidence and slow but steady improvement in Stock Exchange business was perceptible.

During August to mid-September, there was a tense atmosphere in the internal political condition of the country. The arrest of front rank Congress leaders in the earlier part of August, brought about an unfortunate situation. The Bombay Share market was closed for nearly three months. Over Calcutta Stock Exchange business disturbances within the country had but temporary effect and prices soon steadied.

Throughout the last quarter of the year under review, Bombay market practically remained closed. But there was much activity in the Calcutta Share market. Towards the close of November, the Bombay Stock Exchange resumed its normal transactions, and, since then, there had been a rapid improvement in the value of equities. Between Mid-November and Mid-December, great demand was noted for the shares of cement, cotton textiles, tea, sugar, and planting companies. It was during this time that the majority of the shares recovered their losses sustained in the first four months.

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Lots of useful formulae for home application are included in  
**DOMESTIC RECIPES** As 5. Industry Book Dept, Shambazar, Cal.

## STOCKS QUOTATIONS FOR 1942.

	Jan Rs A	Feb Rs A	March Rs A	April Rs A	May Rs A	June Rs A	July Rs A	Aug Rs A	Sept Rs A	Oct Rs A	Nov Rs A	Dec Rs A
<b>Govt. Securities.</b>												
3½ % Govt Paper	95 12	91-12	87-12	88 6	90-14	91 4	93 0	93-0	94-0	94-0	94 0	91 0
<b>Terminable Loans</b>												
3 % Loan (1951-54)	98 4	95 0	94-1	94 0	96 4	98-12	99-11	99 14	99 14	99-14	99-14	99-14
3½ % " (1947-50)	101-8	98-12	97-8	97-8	101-0	102 8	102 4	102-14	102-14	103 6	103-6	103-8
4½ % " (1955 60)	113-0	110 0	107-8	107-8	109 0	110 4	112-0	112-4	113-8	113-12	114-2	114-0
5 % War Loan (1945 55)	108-8	105-2	105 0	105 1	106 14	108-4	108-11	108-13	109-14	109-1	109-2	109-1
4 % Bonds (1960-70)	109-8	105 12	103-0	103-0	104-12	106-8	108-12	108 6	109 8	110 6	110 2	110-4
4 % Loan (1943)	102-14	102-8	102 8	101-12	101-14	101-15	102 8	102-2	102-8	102 4	102-1	102-0
2½ % (1948 52)	97 0	95 0	93-0	93 0	95 0	97 6	98-11	98-13	98-14	98-14	99 0	99-0
3 % (1963 65)	94-12	91-8	88 8	88-9	90 8	92-0	93-6	93-12	94 6	95-7	95-8	95-8
3 % (1946)	100-12	98 4	97-6	97-14	100 6	101-12	101-15	102 0	102-4	102 8	102-11	102-12
<b>Provincial Loans</b>												
3 % Madras (1952)	98-0	97-10	94 6	94 0	93-0	94 0	97-12	98-10	98-12	98-12	99 4	99 4
3 % Madras (1953)	98-12	98 0	95-4	98 0	93 0	94 0	97-12	98 8	98-12	98-12	98 8	98-8
3 % Madras (1959)	96 0	96 0	92-0	96 0	89-0	89-12	94 0	94-8	94-12	95-0	95-8	95-6
5 % U P (1944)	103-12	103 12	102-10	103 12	103 0	103 0	103-14	104-2	104-6	104 5	104 6	104 6
3 % U P (1961-66)	93-0	93-0	89 0	93 0	86 0	88-4	90 4	92-4	93 0	93 8	94-4	94-14
3 % U P (1952)	98 0	97-6	94 0	98 0	93 0	93-8	97-6	98-8	99 0	99-0	99-4	99-4
4 % Punjab (1948)	104-4	104-4	100 8	104-4	101 0	101-8	103-8	104 0	105-0	104 4	104-6	104 8
3 % Punjab (1952)	98 0	97-12	94 0	97-12	93 0	93-12	97 6	98-8	99-0	99 0	99-4	95-12
3 % Punjab (1958)	95 4	95 4	91-0	95-4	89 0	89 8	93-0	94-8	94-4	94-0	95-4	99 14
3 % Punjab (1949)	97-12	97-12	94 8	97-12	94 0	93-12	98-0	99 6	99-12	99-14	99-14	97 8
3 % C P (1952)	98 0	97-12	94 0	98 0	93-0	93-12	97-6	98-8	99 0	99 4	99 4	—

## HIGHEST QUOTATION OF SHARES FOR THE LAST WEEK OF EVERY MONTH OF 1942.

		Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	Paid up per share Rs.	Rs. A	Rs. A	Rs. A	Rs. A	Rs. A	Rs. A	Rs. A	Rs. A	Rs. A	Rs. A	Rs. A	Rs. A
CALCUTTA SHARE MARKET													
<b>Railways.</b>													
Atich Sasaram	100	68-0	68-0	55-0	55-0	55-0	55-0	55-0	55-0	60-0	60-0	60-0	60-0
Duijeeling Himalayan	100	83-0	85-0	70-0	70-0	70-0	72-0	72-0	72-0	78-0	82-0	84-8	84-0
Flowrah-Amra	100	102-0	102-0	92-0	92-0	93-0	93-0	93-0	93-0	93-0	93-0	93-0	93-8
Shahdara (Delhi)													
Saharanpur	100	178-0	178-0	165-0	163-0	165-0	170-0	170-0	171-0	171-0	173-0	182-0	182-0
<b>Cotton.</b>													
Bengal Nagpur	10	18-0	18-0	18-0	18-0	17-1	20-7	23-5	23-6	28-12	27-0	28-0	27-12
Birla	10	17-13	17-13	17-13	17-13	17-13	17-13	18-10	18-5	20-0	22-0	21-8	21-8
Bowen	100	412-8	412-8	375-0	375-0	375-0	375-0	405-0	419-0	441-0	497-0	516-0	515-0
Cannipore Textiles	2½	8-12	8-12	8-12	8-12	8-12	9-10	9-12	10-2	10-8	12-9	15-4	16-12
Dunbar	100	235-0	225-0	225-0	217-0	217-0	244-0	251-8	256-0	258-0	276-0	282-0	285-0
Elgin	10	28-0	27-10	27-2	27-0	28-4	33-4	34-0	34-8	37-0	39-10	43-4	46-8
Muir Mills	50	320-0	320-0	310-0	312-0	312-0	308-0	302-0	303-0	319-0	340-0	335-0	364-0
<b>Jute</b>													
Anglo-India	100	344-0	330-0	330-0	330-0	330-0	320-0	320-0	320-0	330-0	365-0	364-0	368-0
Bally	100	238-0	220-0	220-0	220-0	210-0	225-0	222-0	222-0	234-0	352-0	265-0	267-0
Barnagore	£5	95-0	91-0	90-0	90-0	90-0	90-0	85-8	87-8	98-0	99-8	110-0	114-8
Belvedere	100	395-0	375-0	360-0	360-0	360-0	360-0	360-0	360-0	390-0	394-0	415-0	430-0
Bengal	10	17-0	16-0	15-4	16-4	16-4	16-4	16-4	16-4	17-8	19-8	21-6	22-0
Birla	10	29-12	28-8	28-8	28-8	28-8	28-8	28-8	27-8	30-14	32-14	34-8	36-14
Budge Budge	100	352-0	326-0	325-0	325-0	325-0	329-8	329-0	320-0	330-0	367-0	365-0	390-0
Caledonian	100	392-0	372-0	357-0	357-0	357-0	357-0	355-0	355-0	360-0	359-0	390-0	402-0
Chavlot	100	187-0	175-2	168-0	168-0	168-0	168-0	168-0	172-0	181-0	193-0	188-0	200-0
Clive	10	23-0	22-8	22-2	22-8	22-8	21-12	21-12	21-12	22-0	26-4	25-4	25-12
Dalhousie	100	225-0	212-0	212-0	212-0	212-0	209-0	206-0	206-0	208-0	222-0	235-8	240-0
Delta	100	433-0	414-0	390-0	390-0	390-0	385-0	385-0	385-0	390-0	438-0	442-0	450-0
Empire	10	27-0	26-0	26-0	25-4	25-4	25-4	25-4	25-4	26-0	29-8	29-4	29-12

	Paid up per share Rs	Jan	Feb	March	April	May	June	July	Aug.	Sept	Oct	Nov	Dec
		Rs A	Rs A	Rs A	Rs A	Rs A	Rs A	Rs A	Rs A	Rs A	Rs A	Rs A	Rs A
Fort Gloster	100	515 0	500-0	500-0	500 0	500 0	482-0	490 0	490-0	490 0	548 0	560-0	573-0
Gondalpara	300	1100-0	1106-0	1100-0	1010 0	1010 0	1010 0	1010 0	1015 0	1050 0	1250-0	1250-0	1300 0
Gourepore	100	680 0	675-0	663-0	663-0	663-0	640-0	640 0	642-0	660 0	725 0	732-0	735-0
Hooghly Mills	10	63 0	62-0	62-0	62-0	62-0	69-0	63-0	63-0	65-8	67 0	72-0	72-0
Howrah Mills	10	52-12	52 0	52 0	52 0	52-0	50-4	50 4	50 4	50-8	57-4	57-2	56-14
India	375	348 0	325-0	329-0	320-0	320 0	346 0	345 0	348-0	367-0	415-0	440 0	474-0
Kamrathatty	100	482-0	468 0	447 0	447-8	447-8	447-8	447-8	447-8	447 0	500 0	500 0	519-0
Kankannarah	100	388 0	380 0	365 0	365 0	365-0	365-0	365 0	365-0	366-0	408 0	359-0	430-0
Kelvin	100	485 0	475 0	475 0	465 0	455 0	455 0	455 0	455-0	485-0	565 0	540-0	585-0
Khardah	100	400 0	400 0	400-0	100 0	100-0	385 0	385 0	385-0	390-0	420 0	430-0	420-0
Klunnison	100	340 0	337-0	335 0	335 0	335-0	319-8	319 8	319 8	325 0	350 0	346-0	355-0
Lansdowne	100	148 0	134 0	135-0	135 0	135 0	130-0	130-0	130-0	135 0	150 0	145-0	142-0
New Central	100	302 0	300 0	287-8	287-8	287-8	287-0	287 8	287-8	302-0	316-0	323 0	350-0
Nuddea	50	58-8	58-0	58 0	58-0	58 0	61 8	58-12	59-0	65-4	70-4	71-8	74-4
Orient	100	181-0	175 0	168 0	168-8	168-9	168-8	164 0	170 0	171-0	186-0	185-0	201-0
Reliance	10	53-4	53-0	53 0	53 0	53-0	51-4	51-4	51-4	52-8	56 0	58 4	57-8
Standard	100	220-0	208-0	208-0	203-5	203-5	200 0	200-0	200 0	206 0	218-0	225 0	235 0
Union	100	320 0	310 0	308-0	308 0	308 0	301 0	301 0	301 0	302-0	323 0	320 0	342 0
<b>Electric.</b>													
Agra Electric	100	140 0	140 0	140 0	137 8	137 8	140 0	145-0	145 0	145 0	146 0	146-0	150 0
Calcutta Electric	£1	24-12	24-12	20 0	20 0	14-4	17-12	18-4	18-4	19-0	19 4	20-12	21 0
Rawalpindi Electric	10	27-0	27-0	27-0	27-0	27-0	28-4	27 8	27-8	27-0	28-8	27-12	28-8
U P Electric	100	193 0	193 0	193-0	191 8	192 0	196 0	196 8	196-8	197 0	194 0	198-0	202 0
<b>Coal.</b>													
Amalgamated	10	26 4	26-4	26 4	26 8	26 8	26-8	26-8	26-8	26 0	29 0	30-4	30-8
Bengal	100	361 0	365 0	358 0	358 0	358-0	358 0	358 0	359 0	368 0	383 0	389-0	404 0
Bengal-Nagpur	10	28 6	28 12	28 6	28 6	27-12	27-12	27-12	27-12	28-12	28-12	28-12	30 0
Bokaro and Ramnagar	8	16 0	16 0	16 0	16 0	16 0	15 10	15-10	15-10	17 0	18-0	18-8	18-8
Burrakur	10	12-8	12-8	12-8	12-8	12 6	12-6	12-6	12-8	13-5	13-2	14-2	14 6
Central Kurkend	10	15-2	15 2	15 0	16 0	15 0	14-12	14-12	14-12	14-12	14 6	14 8	14 8

	Paid up per share Rs.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
		Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.
Dhemo Main	10	13-0	13-0	13-0	13-0	12-14	12-14	12-14	12-14	12-14	12-14	13-4	14-9
East Indian	£1	16-12	16-12	16-0	16-0	16-0	15-10	15-10	15-10	16-4	17-0	18-0	19-2
Equitable	10	35-0	35-0	35-0	35-0	34-4	34-4	34-4	34-4	34-12	34-10	33-3	36-6
Huriladnh	10	12-8	12-12	12-12	12-12	12-12	12-10	12-10	12-10	12-14	12-4	14-0	15-0
Jainity (Central)	2½	2-0	2-0	2-0	2-0	2-0	2-0	2-0	2-0	2-0	2-0	2-0	2-8
Mundulpoor	10	10-0	10-0	10-0	10-0	9-12	9-12	9-12	9-12	9-12	9-8	10-6	10-8
New Banskdeepur	10	19-0	19-0	19-0	19-0	19-0	19-0	18-0	18-0	19-0	19-0	22-0	27-8
New Beerbhoom	10	16-4	16-4	15-14	15-14	15-14	15-14	15-14	16-12	16-8	16-8	16-12	18-4
New Manbhoom	10	39-0	39-0	39-0	39-0	39-0	39-0	38-0	38-0	38-0	38-0	38-0	40-0
North-West	10	23-10	22-12	22-8	22-8	22-8	22-9	22-1	22-1	22-8	22-8	22-8	22-8
Pench Valley	10	34-2	34-2	34-2	34-2	34-2	34-2	33-6	33-6	34-0	35-6	36-12	37-0
Raneegunge	10	28-0	28-0	28-0	28-0	26-0	26-0	26-0	26-0	26-12	27-10	27-0	28-0
Seebpore	7	30-8	30-8	30-8	30-8	30-8	29-8	29-8	29-8	22-8	22-8	22-8	23-4
Union	10	35-0	35-0	35-0	33-12	33-12	33-12	33-12	33-12	33-12	32-10	32-12	33-4
West Jamuria	10	30-0	30-0	30-0	30-0	29-0	29-4	29-0	29-0	30-4	29-6	30-2	33-5
Tea.													
Banarhat	100	420-0	420-0	420-0	420-0	420-0	120-0	420-0	420-0	380-0	440-0	547-0	565-0
Basmatin	10	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	14-4	14-4	15-0
Batell	5	17-8	7-4	7-4	7-4	7-4	6-12	7-0	7-8	7-12	8-8	9-0	10-4
Birpara	100	320-0	320-0	320-0	320-0	320-0	320-0	300-0	300-0	300-0	300-0	305-0	328-0
Bishnauth	10	27-8	27-8	26-8	26-8	26-8	26-8	27-8	28-0	28-0	28-0	29-8	30-10
Carron	100	850-0	850-0	850-0	850-0	805-0	805-0	805-0	805-0	805-0	805-0	800-0	800-0
Central Cachar	100	70-0	70-0	70-0	71-0	71-0	68-0	68-0	71-0	71-0	68-0	77-0	88-0
Dessai and Parbutia	100	250-0	250-0	250-0	250-0	250-0	250-0	250-0	250-0	250-0	250-0	266-0	305-0
Engo	100	160-0	160-0	160-0	160-0	160-0	160-0	160-0	160-0	150-0	200-0	180-0	228-0
Hantaphra	100	430-0	430-0	440-0	440-0	440-0	430-0	410-0	410-0	410-0	415-0	445-0	480-0
Hasimara	10	47-4	47-4	48-0	48-0	48-0	47-4	44-12	45-0	45-4	45-0	48-0	52-0
Jaybirpara	10	22-0	22-0	22-0	22-0	22-0	22-0	22-0	22-0	22-4	20-8	24-8	27-8
Kingsley Golaghat	-100	400-0	400-0	385-0	385-0	385-0	345-0	345-0	345-0	385-0	400-0	540-0	600-0
Ledo	100	210-0	210-0	210-0	210-0	210-0	210-0	195-0	195-0	195-0	195-0	208-8	230-0



# 324 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Paid up per share Rs.	Jan Rs A.	Feb Rs A.	March Rs A.	April Rs A.	May Rs A.	June Rs A.	July Rs A.	Aug Rs A.	Sept. Rs A.	Oct. Rs A.	Nov Rs A.	Dec Rs.A.
Naga Halls	10	16 0	16 0	16 0	14 4	15 8	14 8	14 8	15 2	16 4	18 0	21 0
New Doonars	100	1000 0	1000 0	1000 0	1000 0	1000 0	1100 0	1100 0	1100 0	1010 0	1050 0	1050 0
Okayti	100	800 0	800 0	800 0	800 0	740 0	740 0	740 0	750 0	800 0	800 0	810 0
Rydak	10	64 0	64 0	64 0	64 0	59 8	59 8	59 8	59 8	59 8	64 8	68 8
Tenspani	10	21 4	21 4	19 0	19 4	19 4	19 4	19 4	19 2	20 3	20 12	22 0
<b>Sugar.</b>												
Bastu Sugar	100	251 0	260 0	255 0	270 0	300 0	315 0	318 0	350 0	345 0	335 0	335 0
Buland Sugar	10	24 12	24 10	23 0	27 0	29 0	29 8	30 3	30 12	34 4	35 0	44 12
Cawnpore Sugar	10	25 4	24 10	22 8	26 0	27 8	27 0	27 6	27 4	28 10	29 0	30 8
Purtabpore Co	10	11 12	11 4	10 8	10 12	12 12	12 14	13 2	14 3	14 1	14 3	14 2
Raza Sugar	10	26 0	25 0	25 4	27 8	31 4	31 4	32 0	31 10	36 4	39 0	45 8
Ryam Sugar	10	26 0	26 0	26 0	26 0	29 8	29 8	29 8	28 0	29 0	28 12	28 8
<b>Engineering</b>												
Arthur Butler	10	13 0	13 0	13 0	13 0	12 4	12 4	12 4	13 6	14 2	14 0	14 11
Britannia Engineering	10	11 0	11 0	11 0	11 0	11 8	12 2	12 0	11 4	12 4	13 0	13 15
Burn & Co	100	342 0	326 0	325 0	325 0	352 0	388 0	361 0	370 0	391 0	371 0	358 0
Bhartia Electric Steel	10	14 0	14 0	14 0	13 0	13 14	14 12	14 2	15 0	17 4	16 8	17 3
Indian Iron and Steel	10	32 0	22 0	21 8	22 10	26 9	27 12	27 0	30 10	34 9	32 0	34 8
Indian Steel and Wire	10	56 0	56 0	56 0	56 0	56 0	56 0	56 0	56 0	56 8	53 0	53 8
Steel Corporation	10	19 4	15 0	13 12	13 6	17 2	17 13	17 2	19 0	21 8	22 5	25 9
Saran Engineering	2	6 0	6 0	6 0	6 0	5 10	5 10	6 2	5 14	6 11	6 14	7 1
<b>Miscellaneous</b>												
Assam Match	10	19 8	19 10	19 12	19 10	18 2	18 2	18 2	19 0	20 0	19 0	20 8
Balmer Lawrie & Co	100	325 0	325 0	325 0	325 0	330 0	309 0	309 0	315 0	327 0	351 0	350 0
Bararee Coke	10	27 0	27 0	27 0	27 0	26 0	25 12	25 12	26 8	27 0	27 8	28 0
Bengal-Assam Steamship	100	270 0	270 0	260 0	260 0	250 0	245 0	245 0	240 0	240 0	240 0	240 0
Bengal Chemical	100	375 0	375 0	375 0	375 0	375 0	380 0	380 0	370 0	370 0	370 0	370 0
Bengal Flour	10	14 4	14 4	13 8	13 12	14 4	14 8	14 8	16 8	16 8	15 12	15 12
Bengal Paper	25	135 0	135 0	135 0	130 12	130 0	130 0	130 0	132 0	150 0	163 0	170 0

	Paid up per share	Jan. Rs. A.	Feb. Rs. A.	March Rs. A.	April Rs. A.	May Rs. A.	June Rs. A.	July Rs. A.	Aug. Rs. A.	Sept. Rs. A.	Oct. Rs. A.	Nov. Rs. A.	Dec. Rs. A.
Bengal Timber	100	177-8	177-8	177-8	177-8	177-8	175-0	175-0	175-0	175-0	175-0	175-0	175-0
Borooah Timber	10	16-4	16-4	16-0	16-0	16-0	15-8	15-10	15-12	16-4	18-8	19-0	20-0
Britannia Biscuit	10	11-2	11-8	10-14	10-14	10-14	10-12	10-10	10-10	12-0	11-8	11-12	13-8
Calcutta Tramways	£ 1	14-12	14-10	14-8	14-8	14-8	14-8	14-8	13-12	14-8	14-2	14-12	15-1
Dalmia Cement	10	14-0	13-8	13-0	13-13	13-4	16-12	15-10	16-14	16-8	16-8	16-13	16-12
Dunlop Rubber	10	40-8	40-4	40-0	40-0	38-0	37-8	37-8	35-8	35-8	38-4	50-0	50-0
Indian Cable	10	21-0	20-4	19-10	19-8	19-8	20-8	21-8	23-8	24-4	26-3	27-0	28-0
Indian General Navigation	£ 10	81-0	80-0	80-0	80-0	80-0	80-0	77-0	77-0	81-0	88-0	87-0	91-0
Indian Paper Pulp	100	146-8	142-0	135-8	135-8	135-8	146-0	147-0	145-0	156-0	166-0	167-0	171-0
Indian Rubber Mnfrs.	10	28-4	28-8	28-4	28-4	28-4	28-0	27-4	27-0	26-0	25-8	30-0	30-0
Indo-Burma Petroleum	40	95-0	85-0	95-0	95-0	95-0	95-0	95-0	95-0	95-0	50N-0	50N-0	50N-0
Mysole Paper	10	17-8	17-0	17-0	17-0	17-0	17-6	16-12	17-4	18-12	20-13	22-0	23-0
Orient Paper	10	16-8	16-6	15-8	14-14	15-12	18-4	20-12	20-14	22-16	22-6	25-8	26-4
Port Shipping	10	18-0	18-0	18-0	18-8	17-8	17-0	17-0	17-0	16-0	17-0	17-2	17-7
Rohtas Industries	10	24-8	24-8	24-8	24-8	24-8	24-12	23-4	23-4	23-12	25-6	25-12	26-0
Tide Water Oil Co (India)	10	14-0	14-0	13-8	13-8	13-8	13-8	13-8	13-0	12-12	13-4	14-4	14-4
Titlaghur Paper 'A'	5	19-6	18-10	18-4	18-4	18-4	20-0	19-6	19-12	20-6	21-8	22-0	22-2
" " Paper 'B'	5	19-3	18-10	18-4	18-4	18-4	20-0	18-12	18-6	19-14	21-8	22-0	23-2
Tilton Insurance	25	260-0	260-0	260-0	260-0	260-0	260-0	260-0	260-0	220-0	210-0	230-0	235-0
BOMBAY SHARE MARKET													
Banks.													
Bank of India	50	143-0	138-0	136-8	130-0	138-0	141-0	147-0	145-0	146-0	154-0	156-8	158-0
Bank of Baroda	50	111-2	111-2	108-4	103-8	111-8	113-0	118-0	116-8	118-0	121-0	126-0	127-8
Bombay Provincial	50	52-0	52-0	52-0	52-0	52-0	52-0	52-0	52-0	52-0	52-0	57-0	57-0
Central	25	45-12	41-0	42-0	40-4	44-12	46-12	49-8	50-2	52-0	56-4	56-0	56-2
Eastern	£ 5	64-0	64-0	60-0	60-0	60-0	60-0	60-0	60-0	60-0	60-0	60-0	60-0
Imperial (F. Pd.)	500	1565-0	1480-0	1400-0	1415-0	1550-0	1538-12	1536-4	1532-8	1550-0	1640-0	1650-0	1650-0
Do. (P. Pd.)	125	390-0	366-4	350-0	340-0	367-8	375-0	381-4	376-4	382-8	405-0	410-0	412-8

# 326 INDUSTRY YEAR BOOK & DIRECTORY, 1943

	Paid up per share Rs.	Jan.	Feb.	March	April	May	June	July	Aug	Sept	Oct.	Nov.	Dec.
		Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.	Rs. A.
Reserve Bank	100	104-8	100 0	95 0	95 0	102 0	102 0	105 0	100-8	103-0	104-8	105 0	105 0
Union Bank	5	6 14	6-1	5 12	6-12	6 3	7 0	6-9	6-8	7-2	7-2	7-4	7-12
<b>Railways</b>													
Ahmed Pantej	500	850 0	852-8	865 0	852-8	882-8	902-8	930 0	941 4	925 0	925-0	925-0	930 0
Central Prov	100	104-8	103 0	104 0	102 0	105-12	104-0	111-0	109-12	107-4	108-0	—	110 0
Dhond Batamati	100	101 0	104 0	101 0	104-0	104-0	103-8	107-4	107-4	105 0	105 0	—	105 0
Guzerat	100	106 0	102 4	103-0	102-0	103 0	103-8	109 0	107-0	106-0	107-0	—	106 0
Hoshiarpur	100	105-8	104 0	102-0	95-8	95-8	97 0	97 0	97 0	97-0	97-8	—	102 0
Mandru	100	105 0	104 0	102 0	100 0	101-0	100 0	101-0	101 0	101-0	101 0	—	101-0
Mymen Rebate	100	106-8	110 0	106-0	108 0	108-0	107 0	108 0	108 8	108 0	108 0	—	108-0
Do G'fee	100	103-8	110-0	110 0	108-0	106 0	100 0	108 0	107-0	105 0	105 0	—	105 0
Panchora	100	93 0	93-0	93-8	92 0	94-8	98-12	99-8	99-8	98-8	98 0	—	99 0
Sara Suraganj	100	107-0	107-0	107 0	99 0	96 0	98 12	99-0	99-8	99 0	99-0	—	99 0
Shalkot	100	113-4	112-8	113-4	109-8	113-4	112-0	113 0	113-0	115-0	115-0	—	115 0
Do (New)	10	49 0	49 0	50 0	50 0	52-0	70-0	70 0	70 0	48-8	48-8	—	48-8
Sind Light	29	85 0	76 0	72 0	72 0	71 0	75-8	80-12	80-8	77 0	77-0	—	75-0
Tapti Valley		636-4	641-4	631-4	—	—	—	—	—	—	—	—	—
Upper S Light	100	117 0	115-0	113 0	113-8	111 0	111 0	114 0	114 0	114 0	114-0	—	114-0
<b>Cotton Mills.</b>													
Ahmedabad (Adv)	100	323-12	323-12	295 0	305 0	295 0	310 0	357-8	385 0	385 0	395-0	410 0	410-0
Do (Pref)	100	131-0	131-0	130 0	130-0	130-0	130-0	130-0	130 0	130-0	131 0	130 0	130-0
Apollo	2	6 0	4-8	4-10	4 0	5-4	5-4	5-4	5-8	5-4	5-9	5-9	5-7
Bombay Dyeing	250	1100 0	1100-0	1120 0	1110-0	1102-8	1265 0	1308-12	1270 0	1422-8	1610-0	1653-12	1676-4
Century Mills	100	350 0	362-0	350 0	351 0	397-0	465 0	507-0	491-0	401-0	632-0	635 0	401-0
Central India.	100	330 0	330 0	330-0	320 0	330 0	368 0	351-0	368-4	395 0	423 0	420 0	351-8
Do 5 p c (Pref)	500	623-12	647-8	652-8	660 0	682-8	678-12	678-12	660 6	687-2	687 8	675 0	678-12
Colaba.	100	170 0	175 0	170 0	151-8	145 0	190 0	174 0	151-8	215 0	260 0	247 0	215-8
Dawn Mills	250	562-8	562-8	532-8	627-8	627-8	775 0	810-0	627-8	875 0	925 0	895 0	875 0
E D Sassoon Deft	1	5-14	2-9	1-12	2-3	2-7	31	2-11	2-3	3-11	3-14	3-10	3-12
E D Sassoon	200	120 0	120 0	115-0	97-8	100 0	160-0	178 12	160-8	200 0	257-0	237-4	200 0

	Paid up per share	Jan. Rs. A.	Feb. Rs. A.	March Rs. A.	April Rs. A.	May Rs. A.	June Rs. A.	July Rs. A.	Aug. Rs. A.	Sept. Rs. A.	Oct. Rs. A.	Nov. Rs. A.	Dec. Rs. A.
Elphinstone	100	27-8	25 0	19-12	24 0	23 0	36-8	30 0	23 8	41 0	48-0	11 0	41-12
Finlay	100	190 0	195-0	190 0	183-0	191-0	219-0	200-0	191-12	241-0	275-0	295 0	240-0
Gokak	100	230-0	237-0	220 0	235 0	237-0	270-0	251 0	235-11	328 0	370-0	375 0	328 0
Hindustan	1,000	2350 0	2250 0	2220 0	2282 0	2282-8	2550-0	2250-0	2362 0	2750-0	3200-0	3000 0	3200 0
Ind. Manufactur'g	1,000	2400 0	2250-0	2280 0	2275 0	2110 0	2630 0	2800 0	2110-8	2775-0	3200 0	3050-0	3000 0
Indore Malwa	100	212 8	211-4	201-0	221-0	210 0	327-8	325-0	242 6	190 0	670 0	690 0	490-0
Khatua	100	223-12	222-6	217-8	229 6	222-2	292-8	277 8	224-8	343 12	380-0	340 0	360 0
Kolnool	100	450 0	466-0	418 0	422-0	418-0	493-0	462 0	418-10	552-0	627-0	625-0	650-0
Lakshmi	250	700 0	680-0	627 8	640-0	740 0	762-8	757-8	762-8	1005 0	1050 0	1100-0	1000 0
Madhavji	5	15 0	12-4	13-0	14-4	13-0	17 8	16-12	17 8	20-8	22-0	23-0	22-0
M. Sassoon	100	118-0	132 8	90N 0	103-12	113-8	112-8	117-8	112-8	152-8	162 0	154 12	152-0
Minerva Mills	100	115-0	115 8	115 0	103 2	111-14	145-10	135 0	130 12	150-0	160-0	165-0	160 0
Morarij	100	130 0	440 0	425N 0	442-0	450 0	695 0	576-0	450-8	740-0	800 0	825 0	800 0
Model Nagpur	250	200-0	193 12	203-12	210-0	216 1	242-8	227-8	216 4	262-8	295 0	295 0	260 8
Mysore	50	375-0	—	128-0	130-0	121-4	140 0	137-8	140-8	163-12	175 0	195-0	160 8
New City	100	260-0	440-0	215-0	190-0	190 0	235 0	260 0	240 0	315-0	350-0	390-0	350 0
New Great	100	220-0	260 0	260 0	240 0	224-0	284 0	258 0	248-0	320 0	380 0	375-0	330 0
Do (Pref)	200	—	216-4	211-4	206 0	209-6	210-0	215-0	210-0	217 8	230 8	217-8	220-0
Sassoon Silk	10	81 8	80 8	80-0	81 0	80 0	89-0	91-8	81-8	95-12	95-12	95-12	90 8
Sassoon Spinning	10	15-12	15-1	13-8	13 8	13-8	15-8	16 8	16 8	19-8	22-8	22-8	22-8
Sholapur	1,000	5395-0	5200-0	5000-0	5175-0	5200-0	6875-0	6450-0	5300 0	7300-0	8000 0	8900 0	8000 0
Do, 5 p e Debs	67	73 4	73-8	74 0	74 12	71 0	72-0	72-12	74-12	72-12	72 8	72-12	72-8
Simplex	50	180 0	180 0	180N 0	155 0	163 0	222-0	211-0	170-0	248-0	270 0	266 0	260-0
Swadeshi	100	380-0	402-0	355-0	380 0	385 0	440 0	442 0	380 0	475-0	475-0	460-0	475 0
Do Pref	100	134-10	130-10	130-10	130-10	130-10	126 4	126-4	130-8	126 4	126-4	130-0	130-0
Swan	100	202-0	202 0	200 0	180 0	160 0	213-0	199-0	175 0	238-0	270 0	251-0	270 0
Tata Mill	25	33 0	32 0	26-8	28-8	27-0	36-4	32-0	36-8	40 0	42-0	72-0	70 0
Vishnu	500	1555 0	1555-0	1442-0	1470 0	1600-0	1630-0	1595 0	1600-0	1930 0	2000-0	2100 0	2000-0
Do, (Pref)	500	747-8	750 0	715-0	716 0	715-0	700-0	700-0	750 0	770 0	770 0	770-0	750 0
Western India	1,000	1600 0	1600 0	1500-0	1550-0	1500 0	1805-0	2200-0	1500 0	2440 0	2600-0	2400-0	2600 0

Paid up per share Rs	Jan Rs A	Feb Rs A	March Rs A	April Rs A	May Rs A	June Rs A	July Rs A	Aug Rs A	Sept Rs A	Oct Rs A	Nov Rs A	Dec Rs A
<b>Miscellaneous.</b>												
Ahmedabad Electric	100	172-8	165 0	164-12	172-8	186-4	181-0	179-6	181-14	182-8	190-0	191-14
Ajmer Electric	10	12-11	12-9	12-15	13-2	13-10	13-11	13-12	13-12	13 0	13-4	13-12
Andhra Valley	1000	1670-0	1440-0	1475-0	1458-12	1620-0	1620-0	1620-0	1695-0	1700-0	1725-0	1770-0
Do (Pref)	1000	1535-0	1562-8	1510-0	1502-8	1465-0	1540-0	1550-0	1580-0	1580-0	1545-0	1655-0
Associated Cements	100	154-4	158-8	149-0	153-0	156-0	166-8	168-8	183-0	192-8	194-0	203-8
Belapur	50	218-0	229-0	265 0	217-0	232-0	240-0	230-0	226-0	239-0	232-0	228-0
Bombay Buima Trading	125	311-4	318-12	265N 0	202-8	197-8	230-0	217-8	226-4	310-0	272-8	360 0
Do (New)	50	125-0	118-12	65 0	71-0	70-10	70-0	70-0	90 0	100 0	97-8	125-0
Bombay Safe Deposit	200	622-8	622-8	622-8	622-8	622-8	622-8	622-8	622-8	622-8	622-8	640 0
Bombay Steam	250	310-0	305-0	290 0	318-0	325-0	327-0	331-4	345-0	400-0	410 0	140-0
Do (Pref)	250	320 0	320 0	314-0	317-0	317-8	327-8	198-12	330 0	330 0	330-0	350 0
Bombay Suburban Elec	100	170-0	170 0	170 0	161-4	173-12	198-12	196-0	196-4	190 0	194-12	175 0
Bombay Telephone	50	50-2	49-12	48 0	19 0	48-0	48-0	49-4	50-0	49 0	50 0	50 0
4 p c Debs	50	137-8	137-0	124 0	127-1	127-0	134-0	131-0	140-0	143-0	142-0	143-0
Bombay Tram	50	76-12	77-8	90 0	75 0	72-8	78 0	77-12	79 0	78-8	79 0	78-8
Do (Pref)	50	90-0	90-0	90-0	66-0	60 0	60 0	60-0	85 0	85 0	85-0	85-0
Bombay Uganda	80	90-0	90-0	90-0	66-0	60 0	60 0	60-0	85 0	85 0	85-0	85-0
British Burma Petrol	15	1-15	1-8	1-8	1-1	1-4	1-6	1-5	1-9	2-6	1-13	2-3
Broach Electric	10	14-14	14-11	13-4	13-4	14-0	14-4	13-0	13-0	13-0	13 0	11-10
Burma Corpn	9	2-12	2-8	1-9	1-11	1-12	2-0	1-15	2-10	3-0	3-5	3-10
Empure of India	100	768-12	768-12	756-4	700 0	700 0	695-0	695-0	695-0	710 0	670-0	675-0
Hyderabad Electric	100	210 0	210 0	210 0	210 0	210-0	210 0	210 0	210-0	210-0	210-0	210-0
Indian Bleach	100	175N-0	175-0	165N 0	140 0	137-8	167-0	165 0	207-0	207-0	232-0	232-0
Indian Copper	25	1-13	1-11	1-8	1-9	1-12	2-2	1-15	2-3	2-7	2-8	2-4
Indian Lion & Steel	10	27-8	21-8	21-6	22-9	23-6	27-2	25-12	32-10	34-0	32-4	33-6
Indian Mercantile Ins	20	68-4	68-0	54 0	60-0	60 0	72 0	71 0	70-0	71 0	70-0	72-0
Indian Radio	100	430-0	430 0	430 0	340-0	340-0	340-0	361-4	367-8	380 0	340-0	367-0
Do (Deft)	100	370-0	360 0	360-0	360 0	360 0	360-0	350 0	360 0	360-0	360 0	360 0
Indian Iv Tr	50	49-8	48-12	45-0	45-8	44 0	18-8	49 0	50-0	51 0	51-8	55-8
Just Engineering	50	151-4	151-4	151-4	151-4	151-4	151-4	170 0	163-12	133-12	156-4	160 0

	Paid up per share	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec.
	Rs.	Rs A	Rs A	Rs A	Rs A	Rs A	Rs A	Rs A	Rs. A	Rs A	Rs A	Rs A	Rs A
Jupitel	15	15-12	14-12	10-8	13-4	12-12	14-8	15-0	15-2	15-2	15-8	16-12	17-0
Do (Pref.)	10	14-0	14-0	11-0	11-0	11-0	11-0	11-0	11-0	11-0	11-0	16-0	16-0
Katachu Electric	100	217-8	217-8	208-12	195-0	192-8	187-8	187-8	193-4	196-4	195-0	196-4	235-0
Kemp & Co	200	315-0	315-0	315-0	315-0	310-0	330-0	335-0	332-8	332-8	332-8	350-0	350-0
McKenzie	100	116-4	116-4	100-0	100-0	99-0	135-0	135-0	125-0	135-0	135-0	125-0	195-0
N I Assurance	15	51-12	47-4	39-12	11-0	42-0	48-8	47-0	50-8	52-4	53-8	57-0	58-0
Oriental	200	4260-0	4010-0	3300-0	3500-0	3525-0	4050-0	3960-0	3920-0	4145-0	4200-0	4300-0	4410-0
Poona Electric	100	217-8	217-8	217-8	217-8	210-0	210-0	210-0	238-12	238-12	240-0	238-10	265-0
Port Canning	100	84-0	80-0	67-12	72-0	74-0	82-0	82-0	86-0	88-0	91-0	88-0	89-0
Premier Con Old	30	108-0	113-0	105-8	109-0	110-0	121-8	114-0	119-8	127-8	127-8	132-0	139-0
Do 1st Pref	100	121-0	121-0	115-8	112-8	118-0	121-0	121-8	122-8	120-0	121-0	122-8	125-0
Do 2nd Pref	100	117-0	116-0	116-0	106-0	106-8	118-0	115-8	121-0	121-4	119-0	121-0	125-0
Scindia Steam	15	20-2	18-8	17-4	19-8	17-9	21-5	19-11	20-3	23-4	24-10	25-4	25-6
Shivajipui	10	28-0	29-8	28-4	31-0	30-0	36-8	35-0	46-0	52-0	53-8	58-0	57-0
Steel Corp Bengal	10	16-0	13-10	12-5	13-8	13-6	16-13	16-1	16-9	20-0	21-0	20-2	24-10
Do. (Pref)	100	100-8	109-0	98-0	92-0	93-8	98-0	107-0	110-8	110-12	110-12	110-12	114-0
Surat Electric	100	184-6	183-12	178-12	178-12	175-0	186-4	186-4	179-6	179-12	180-0	185-0	193-12
Do (Pref)	100	188-12	188-12	188-12	188-12	190-0	192-8	192-8	192-8	192-8	192-8	192-8	193-12
Tata Hydro	100	171-0	172-0	145-0	150-0	154-0	167-0	168-0	171-8	176-8	176-8	183-8	188-8
Do. (Pref)	100	154-6	154-6	153-12	146-11	142-0	148-12	151-0	155-0	159-6	165-0	163-8	165-10
Tata Steel Old	75	299-8	299-0	285N-0	225-0	239-0	315-0	280-0	295-0	311-0	347-0	345-0	356-0
Do Deft	30-0	1575-0	1602-8	1525N-0	1150-0	1265-0	1610-0	1395-0	1475-0	1580-0	1690-0	1670-0	1735-0
Do 1st Pref.	150	200-0	205-0	175-0	180-0	181-4	203-12	204-10	206-4	200-0	205-0	206-4	213-0
Do 2nd Pref	100	139-0	131-8	97-0	107-0	115-0	134-0	130-12	136-0	134-8	138-8	134-12	140-0
Tata Oil	25	51-12	48-8	46-0	44-0	46-0	54-8	52-8	62-8	68-8	72-8	77-0	75-0
Tata Power	1000	1581-0	1580-0	1261-4	1365-0	1351-0	1622-0	1470-0	1620-0	1600-0	1650-0	1620-0	1667-0
Do (Pref)	1000	1600-0	1582-0	1530-0	1523-12	1525-0	1590-0	1590-0	1600-0	1610-0	1610-0	1560-0	1625-0
United Motors	20	28-0	28-0	28-0	28-0	28-0	28-0	28-0	26-0	26-0	26-0	26-0	26-0
Vulcan Insurance	10	10-0	9-12	7-8	8-7	7-14	10-2	10-0	9-8	10-2	10-4	10-2	11-0
W. I Match	100	210-0	202-8	190-0	192-8	202-8	220-0	217-8	227-8	250-0	260-0	277-8	307-0

## Price Movement of Commodities.

**T**HE most baffling problem in the war time economic situation of India is undoubtedly the phenomenal rise in prices of all sorts of commodities. Whatever may be the cause, main or subsidiary, immediate or remote, the unassailable fact remains that there has been a shooting-up of prices and that on a surprising level. That the war is mainly responsible for the origin, growth and insistent manifestation of the steep rise in the wholesale and retail prices of commodities is a fact that cannot be denied. The ever-increasing spiral of prices has shaken the foundation of the economic structure of the country and even the most serious students of economics and the Government protagonists find it extremely hard to tackle this problem in a suitable manner.

But particularly pronounced is the rise of the price of foodstuffs and some of the essential commodities. It has caused untold misery to the poor wage-earners and the middle-class population and the very physical existence of the starving millions of the country has been threatened. The measures so far adopted by the Government to ward off the evil of rise in prices, however thoroughly and ingeniously executed, have failed to touch even the fringe of this problem.

The cost of living has doubled in every part of the country, both urban and rural, compared with the pre-war time. The index number for the wholesale prices of all commodities in Calcutta has moved from 100 in August, 1939, to 277 in November, 1942. The index number for cereals has risen from 83 to 227, that of pulses from 96 to 226 and of other food articles (besides tea and sugar) from 114 to 371. The position appears to be equally serious if examined from the point of view of the working-class people in and around Calcutta, which has moved from 100 (the pre-war base) to 184 towards the last week of November, 1942. The average price of 8 varieties of rice in Calcutta have recorded an increase of 300 per cent and the price of coal has gone up to 200 per cent.

Similar dizzy heights of prices are discernible in Bombay. While the cost of living index number for Bombay city stood at 105 in August, 1939, the same for the period ended 15th January, 1943 was placed at 203. The index number of fuel which was pegged at 99 in August, 1939, moved up sharply to 175 in December, 1942. The rise in the clothing group and miscellaneous articles was marked up from 98 in August, 1939, to 201 in December, 1942. In Bombay, Ahmedabad, Nagpur and Cawnpore the cost of living has more than doubled, average increments in the wages and salaries of persons having varied from 12½ p c to 33 p c in these centres.

Taking the average rise of prices of 23 articles on an All-India basis, it will be found that the index number of prices which was 100 in 1939 has gone up to 164 in September, 1942. But still there is ample ground to believe that the actual rise in price level is much higher than the index number which is based on the statistics of controlled prices.

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Principles of construction of storage batteries and their care are dealt with in Manufacture of BATTERIES. Re. 1/12. Industry Book Dept., Cal

## PRICE MOVEMENT OF COMMODITIES

331

# PRICES OF PRINCIPAL COMMODITIES IN INDIA IN 1942

[illegible]



	Jan Rs A	Feb Rs A	March Rs A	April Rs A	May Rs A	June Rs A	July Rs A	Aug Rs A	Sept Rs A	Oct Rs A	Nov Rs A	Dec Rs A
<b>Goat Skins Good Quality</b> per 100 pieces												
Highest	130 0	130-0	130-0	130-0	125-0	130 0	130-0	120-0	115-0	120-0	145-0	145 0
Lowest	110-0	110-0	110 0	100-0	95-0	110 0	110-0	95 0	95 0	95-0	115 0	125 0
<b>Iron &amp; Steel (Pig Iron Foundry)</b> No 1) per ton												
Jute (raw) (European Tops) per md	94-0	94 0	94 0	94-0	94-0	94-0	94 0	94-0	94-0	94 0	94 0	94 0
Highest	15-4	16 0	14-8	14-0	11 0	10-8	10-8	9-8	9 4	11-4	14-8	16-8
Lowest	14-0	14-0	14-0	13 0	10-12	10 0	10-4	9 0	9-0	10-0	12-12	14-4
<b>Jute Bags (B Twills) p 100 bags</b>												
Highest	37-0	37-10	38-4	39-12	38-12	42-8	41-8	41-4	42-10	50-0	58-0	61-12
Lowest	35-0	36-12	36-4	36-4	36-4	39-12	40-1	39-12	40-12	44-0	55 0	56-12
<b>Jute Cloth Hessan 10½</b> 40"X11X12 per 100 yds												
Highest	23-2	25-14	24-14	24-10	18 4	18-10	18-11	18-8	18-0	18-12	21-7	24-2
Lowest	20 6	23-12	23-2	18 0	16-14	17 8	18-6	17-6	—	18-8	18-12	22-8
<b>Oil Cakes.</b>												
<b>Groundnut cake per B Md. loose</b>												
Highest	1-11	1-14	1-14	1-13	2-4	2-8	2-4	2-8	2-3	2-8	2-8	3 0
Lowest	1-10	—	1-12	—	2 0	2-2	2-3	—	—	2-3	—	2-12
<b>Castor Seed F A per cwt</b>												
Highest	8-7	7-13	7-12	8-9	9 0	10-10	12-10	13-4	13-4	13-4	13-4	16-8
Lowest	8-5	7-12	7-11	8 3	8-14	9-0	10-2	12-12	—	—	13 0	14-12
<b>Copra per 654 lbs</b>												
Highest	65-0	71 0	70-0	70-0	100 0	130 0	120-0	120 0	130 0	150 0	160-0	190-0
Lowest	62-8	70-0	65-0	65-0	75 0	105-0	105 0	116-0	112-0	142-0	150-0	175-0
<b>Cotton Seed per cwt</b>												
Highest	3-15	3-14	3-12	3-11	3-10	4-10	1-10	4-7	4 6	4 6	5-0	5 0
Lowest	3-13	3-12	—	3-9	2-7	3 0	4-3	4 0	—	—	4 6	—

# PRICE MOVEMENT OF COMMODITIES

333

	Jan Rs. A	Feb Rs A	March Rs A	April Rs A	May Rs A	June Rs A	July Rs A	Aug Rs A	Sept Rs A	Oct Rs A	Nov Rs A	Dec Rs A.
<b>Sesamum Seed (white Bold 85%) per cwt</b>												
Highest	9-0	9 8	9 8	9-6	12-4	12-4	13-0	13 0	13-0	13 0	13-2	17-0
Lowest	8-15	9-5	9 6	8-14	10-0	12-0	12-4	—	—	—	13-0	15 0
<b>Groundnuts per candy of 500 lbs</b>												
Highest	30-2	29-12	23-4	30 6	31-9	36 8	45-3	49 0	48 0	19-15	49-15	53-10
Lowest	28-12	29-11	25-14	28-4	28 4	32 0	39-1	48-12	46 0	47-1	44-1	49-11
<b>Linseed bold per md</b>												
Highest	6-3	6-0	8-11	8-12	9 8	10-9	12-7	11-7	11-7	11-7	12-4	13-0
Lowest	5-15	5-14	—	8-9	8-11	9-4	10-14	—	—	—	11 7	12-0
<b>Rape Seed Toria admixture per candy</b>												
Highest	39-14	38-10	39-0	39-6	43-6	52-12	74 4	74 4	69-0	61-12	60-12	66 4
Lowest	38 4	37-4	38-10	39-0	39 5	47 4	51-14	69-0	63-12	58-10	58-12	64-10
<b>Castor oil per candy of 500 lbs</b>												
Highest	75-0	75-0	76 0	75-0	82-0	105 0	120 2	126 0	126-0	155 0	155 0	170 0
Lowest	—	—	75 0	70 0	70 0	82-0	105-0	124 0	—	145 0	150-0	155 0
<b>Coconut oil per candy of 654 lbs.</b>												
Highest	98-8	94-2	100-8	115-8	151-4	194-12	192-8	193-12	198-12	226-12	244-0	236-4
Lowest	93-12	93-2	96-10	106-0	127-0	165 4	186-12	186-12	183-0	221-12	288 0	249-0
<b>Kerosene (Rising Sun) per 2 tins</b>												
Highest	8 4	8 4	8-12	9 9	9-9	9 9	9 9	8-12	8-12	—	—	—
Lowest	7-14	—	8-5	8-12	—	—	—	—	—	5-5	5-5	5 5
<b>Superior 4 gallons Petrol in 1 tin per Imperial gallon</b>												
	1-11	1-11	1-11	1-15	1-15	1-15	1-15	1-15	1-15	1-15	1-15	1-15
<b>Rice</b>												
<b>Seeta No 1, per B md.</b>												
Highest	7 4	6 0	6-0	6-8	7 0	7-4	8 0	10-8	10-8	—	—	—
Lowest	6 0	5-10	5-10	5-10	6-8	6-12	9 0	8-8	10-0	—	—	—

	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
	Rs. A	Rs A	Rs A	Rs A	Rs A	Rs A.	Rs A	Rs. A	Rs. A	Rs A	Rs A	Rs A
<b>Balam No. I per B. md</b>												
Highest	7.4	6.6	6.4	6.4	6.12	7.8	8.3	9.4	10.6	10.6	10.6	14.0
Lowest	6.10	6.2	6.2	6.0	6.4	6.12	8.0	8.12	9.4	9.6	9.4	12.8
<b>Shellac</b>												
<b>T. N per B md.</b>												
Highest	48.0	68.0	70.0	65.0	62.0	58.0	64.0	64.0	64.0	64.0	64.0	64.0
Lowest	—	66.0	67.0	62.0	43.0	51.8	58.0	—	—	—	—	—
<b>Sugar (manufactured) First</b>												
Crystal per md ex factory												
Highest	11.9	11.15	13.0	13.0	13.0	12.3	12.4	12.4	12.4	12.4	12.4	12.4
Lowest	10.11	11.0	11.12	11.12	11.1	11.1	11.11	11.9	11.9	11.9	11.9	11.9
<b>Sugar (gun) Dacca (Quality)</b>												
Highest	10.0	7.0	7.8	9.0	9.0	11.0	12.12	14.0	14.0	17.0	17.0	20.0
Lowest	8.12	—	7.0	7.8	—	9.4	11.0	13.8	—	14.0	14.8	—
<b>Tea for Export per lb.</b>												
Highest	0.14	1.0	1.2	0.15	0.15	1.5	1.4	0.14	0.15	0.15	0.15	0.15
Lowest	0.12	—	0.15	0.8	0.8	0.15	1.2	0.13	0.14	—	—	—
<b>Tea for India per lb.</b>												
Highest	0.8	0.10	0.10	0.8	0.8	0.15	1.0	0.11	0.14	1.0	1.3	1.8
Lowest	—	—	0.8	—	—	0.14	0.14	0.10	0.11	0.15	—	1.4
<b>Wheat Punjab white per candy</b>												
of 556 lbs												
Highest	43.12	43.12	44.4	48.0	45.2	50.0	47.2	47.8	48.0	51.8	51.8	51.8
Lowest	43.10	43.7	—	44.8	43.6	47.4	47.0	46.12	—	48.0	—	—
<b>Wool (raw) per md</b>	58.0	55.0	55.0	55.0	55.0	55.0	50.0	50.0	50.0	50.0	50.0	50.0

## INDEX NUMBERS OF COMMODITY PRICES, CALCUTTA.

(BASIS 1914 = 100)

Commodities	No of Items	Feb. 1942	Mar. 1942	April, 1942	May, 1942	June, 1942	July, 1942	Aug., 1942	Sept., 1942	Oct., 1942	Nov., 1942	Dec., 1942	Jan. 1943
Food grains—													
Cereals	8	114	115	118	126	154	153	174	177	185	220	250	260
Pulses	6	122	127	129	127	151	151	166	186	198	226	241	238
Sugar	5	164	177	198	200	210	220	215	251	231	231	231	258
Tea	3	248	232	228	246	259	197	179	189	265	305	293	299
Other food articles	9	217	213	228	285	294	289	352	349	355	371	411	434
Oil, seeds	3	100	104	121	121	146	162	167	161	166	186	199	196
Oil, mustard	2	80	70	80	80	82	95	97	100	105	105	105	105
Textiles—													
Jute, raw	3	72	70	67	67	72	69	67	76	85	107	98	125
Jute, manufactures	4	140	141	117	123	126	126	123	129	147	166	159	175
Cotton, raw	2	73	70	70	79	90	102	100	108	120	127	142	143
Cotton, manufactures	7	171	190	190	154	169	170	136	162	183	194	171	194
Other textiles (Wool & Silk)	2	98	82	140	154	169	170	136	162	183	194	171	194
Hides and skins	3	86	86	81	87	87	85	82	82	88	91	92	95
Metals	6	264	258	258	258	263	280	275	273	291	296	302	367
Other raw and manufd. articles	8	145	140	145	140	144	147	148	146	149	156	159	159
Building materials (Teakwood)	1	141	141	141	141	141	141	141	141	141	141	141	141
All commodities	72	153	153	157	169	182	182	192	198	209	227	238	254



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# CIVIL DIVISIONS OF INDIA

The names within parentheses indicate chief towns of Districts where these are other than the names of the Districts. The abbreviations S. D. and S. T. indicate Sub-Division and Sub-Tahsil, respectively.

## PRESIDENCIES & PROVINCES

Under the Governor-General of India in Council, including—

- |   |   |
|---|---|
| 1 Bengal Presy, under a Govr.                         | 7 The Central Provinces under a Governor          |
| 2 Bombay Presy, under a Govr                          | 8 Assam under a Govt.                             |
| 3 Madras Presy, under a Govr                          | 9 North-West Frontier Province, under a Governor. |
| 4 Bihar under a Governor                              | 10 Sind, under a Governor.                        |
| 5 The United Provinces of Agra and Oudh, under a Govr | 11 Orissa, under a Governor                       |
| 6 The Punjab, under a Govr.                           |   |

### 1.—BENGAL PRESIDENCY—Under a Governor.

In Five Divisions under Commissioners and 28 Districts.

#### (1) BURDWAN DIVISION.

(Hd. Qr.—Chinsurah).

Burdwan, S D—Burdwan, Asansole, Katwa and Kalna  
 Birbhum (Suri), S D—Suri and Rampurhat  
 Bankura, S D—Bankura and Vishnupur.  
 Midnapur, S D—Midnapur, Jhargram, Ghatal, Tamluk and Contai  
 Hooghly (Chinsura), S. D—Hooghly, Serampur and Arambagh  
 Howrah, S. D—Howrah and Ulubaria

#### (2) PRESIDENCY DIVISION.

(Hd. Qr.—Calcutta).

Calcutta, the seat of the Governor of Bengal  
 Twenty-four Parganas (Alipur), S D—Diamond Harbour, Alipur, Barasat, Basirhat and Barrackpore  
 Nadia (Krishnagar), S D Kushitia, Meherpur, Chuadanga, Krishnagar and Ranaghat  
 Muishidabad (Berhampur), S D—Berhampur, Lalbagh, Jangipur and Kandi  
 Jessore, S D—Jhenida, Magura, Jessore, Narail and Bongaon

Khulna, S D—Khulna, Satkhira and Bagerhat.

#### (3) DACCA DIVISION.

(Hd. Qr.:—Dacca).

Dacca, S D—Narayanganj, Dacca, Manikganj and Munshiganj  
 Mymensingh, S D—Jamalpur; Tangail Netrakona, Mymensingh and Kishoreganj  
 Faridpur, S D—Faridpur, Madaripur, Gopalganj and Goalundo  
 Bakarganj, S D—Barisal, Patuakhali, Pirojpur and Dakshin Shahbazzpur.

#### (4) CHITTAGONG DIVISION.

(Hd. Qr.:—Chittagong).

Chittagong, S. D—Chittagong and Cox's Bazar  
 Noakhali, S D—Noakhali and Feni  
 Tipperah, S D—Brahmanbaria, Comilla and Chandpur.  
 Chittagong Hill Tracts (Rangamati), S D—Rangamati and Ramgarh.

#### (5) RAJSHAHI DIVISION.

(Hd. Qr.:—Jalpaiguri).

Rajshahi (Rampur Boalia), S D—Naogaon, Rampur-Boalia and Natore.

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Dinajpur, S. D.—Balurghat, Thakurgaon and Dinajpur.

Jalpaiguri, S. D.—Jalpaiguri and Alipur.

Rangpur, S. D.—Rangpur, Nilphamari, Kurigram and Gaibandha

Bogra, S. D.—Bogra.

Pabna, S. D.—Pabna and Sirajganj.

Malda, (English Bazar), S. D.—Malda.

Darjeeling, S. D.—Darjeeling, Kurseong, Siliguri and Kalimpong.

## 2.—BOMBAY PRESIDENCY—Under a Governor.

### In Three Divisions under Commissioners and 19 Collectorates.

#### (1) NORTHERN DIVISION.

(Principal Language—Gujarati).

Ahmedabad, (Hd Qr. Ahmedabad city) Prant S. D. Taluks — City Mahal North Daskroi, Dholka Prant S. D. Taluks Sanand (Peta), Dholka, Dhandhuka, Gogha (Peta), Viramgaon Prant S. D. Taluks — South Daskroi, Prantij, Modasa (Peta), Viramgaon

Kaira, (Hd Qr Kaira), Northern Prant S. D. Taluks —Matar, Mehamadabad, Nadiad, Kapadvanj, Southern Prant S. D. Taluks —Anand, Borsad, Thasra.

Broach and Panch Mahals (Hd Qr Broach), Godhra-Prant S. D. Taluks —Godhra, Dohad, Kalol, Jhalod (Peta), Halol (Peta), Broach Prant, S. D. Taluks —Broach, Ankleshwar, Jambusar, Vagra

Surat, (Hd Qr Surat), Northern Prant S. D. Taluks —Mandvi, Olpad, Chorashi, Bardoli Valod (Peta), Southern Prant S. D. Taluks —Bulsar, Chikhli, Jalalpore, Pardi (Peta).

Thana, (Hd Qr Thana), Kalyan Prant S. D. Taluks —Kalyan, Thana Mahal, Dahanu Prant S. D. Taluks —Palghar, Dahanu, Umbergaon (Peta), Vada (Peta), Mokhada (Peta), Bhivandi Prant S. D. Taluks —Bhivandi, Shahapur, Murbad, Bassein.

Bombay Suburban, South Salsette S. D. Taluks —South Salsette.

#### (2) CENTRAL DIVISION.

(Principal Language—Marathi).

Ahmednagar, (Hd Qr Ahmednagar), Northern Sub-Division, Taluks —Shevgaon, Nevasa, Kopergaon, Rahuri, Sangamner, Akola, Southern Sub-Division, Taluks —Ahmednagar, Parner, Shrigonda, Karjat (Peta), Jamkhed (Peta), Patharni (Peta) Khandesh, East, (Hd Qr Jalgaon), Eastern Sub-Division, Taluks —Jalgaon, Bhusawal, Raver, Yaval, Jamner, Edlabad (Peta), Western Sub-Division, Taluks —Chopda, Erandol, Amalner, Parola, Chalisgaon, Pachora, Bhadgaon (Peta)

Khandesh, West, (Hd Qr Dhulia), Eastern Sub-Division, Taluks —Dhulia, Sakli, Sirpur, Sindkheda, Western Sub-Division, Taluks —Shahada, Nandurbar, Taloda, Navapur (Peta)

Nasik, (Hd Qr Nasik), Nasik Sub-Division, Taluks —Nasik, Dindori, Niphad, Sinnar, Igatpuri, Malegaon Sub-Division, Taluks —Kalvan, Nandgaon, Malegaon, Baglan, Yeola, Chandor (Peta), Peint Sub-Division, Taluks —Peint (Peta) (in charge of the Divisional Forest Officer)

Poona (Hd Qr Poona) In charge P.A. to Collector, Taluk, —Poona City, Eastern Sub-Division, Taluks —Bhimthadi, Sirur (Peta), Indapur, Purandhar, Dhond (Peta), Western Sub-Division, Taluks —Junnar, Kheq, Maval, Haveli, Ambegaon (Peta), Mulshi (Peta)

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Satara, (Hd Qr. Satara), Northern Sub-Division, Taluks—Jayli, Wai, Khatav, Man (Peta), Mahableshwar (Peta), Koregaon, Southern Sub-Division, Taluks—Karad, Patan, Khanapur, Tasgaon, Walvap, Shirala (Peta), Central Sub-Division, Taluks—Satara, Karad

Sholapur, (Hd Qr Sholapur), Sholapur Sub-Division, Taluks—Sholapur, Barsi, Madha, Karmala, Pandharpur Sub-Division, Taluks—Pandharpur, Sangola, Malsiras

### (3) SOUTHERN DIVISION.

(Principal Languages—Kannada and Marathi).

Belgaum, (Hd Qr Belgaum), Southern Sub-Division, Taluks—Belgaum, Khanapur, Sampgaon, Paisgad, Chandgad (Peta), Northern Sub-Division, Taluks—Athni, Chikodi, Gokak, Hukeri.

Bijapur, (Hd Qr Bijapur), Northern Sub-Division, Taluks—Indi, Sindgi, Bijapur, Bagewadi, Southern Sub-Division, Taluks—Muddebihal, Badami,

Bagalkot, Hungund, Bilgi (Peta)

Dharwar, (Hd Qr. Dharwar), First Division Taluks—Dharwar, Kalghatgi, Second Division Taluks—Karajgi, Ranebennur, Hangal, Kod, Bankapur, Third Division Taluks—Gadag, Navalgund, Ron, Mundargi (Peta), Nargund (Peta), Hubli

Kanara, (Hd. Qr Karwar), Karwar Sub-Division Taluks—Karwar Ankola, Yellapur, Haliyal, Supa (Peta), Mundgod (Peta), Sirsi Sub-Division. Taluks—Sirsi, Kumta, Honawar, Siddapur, Bhatkal (Peta).

Kolaba, (Hd Qr. Alibag), Northern Sub-Division Taluks—Alibag, Panwel, Uran (Peta), Southern Sub-Division Taluks—Pen, Roza, Karjat, Mangaon, Mahad

Ratnagiri, (Hd Qr Ratnagiri), Northern Sub-Division, Taluks—Chiplun, Dapoli, Khed, Mandangad (Peta), Guhagar (Peta), Sangameshwar, Southern Sub-Division Taluks—Ratnagiri, Rajapur, Devgad, Malwan, Vengurla (Peta)

## 3.—MADRAS PRESIDENCY—Under a Governor. In Twenty-Five Districts.

Anantapur, Taluks—Dharamavaram, Tadpatri, Gooty, Anantapur, Hindupur, Madakasthra, Penukonda, Kalyandrug and Kadiri

Bellary, Taluks—Bellary, Adoni, Hospet, Alur, Rayadrug, Hadagali, Harpanahalli, Kudligi and Siruguppa

Chingleput, Taluks—Madurantakam, Conjeeveram, Saidapet, Tiruvallur, Ponneri, Chingleput and Sriperumbundura

Chittoor, Taluks—Chittoor, Palmaner, Madanapalle, Vayalpad, Punganur, Chandragiri, Kalahasti, Puttur and Tiruttani

Coimbatore, Taluks—Erode, Palaladam, Coimbatore, Dharapuram, Kollegal, Pollachi, Udampalpet, Bhavani, Avanashi and Gopichettipalapuram

Cuddapah, Taluks—Cuddapah, Rajampet, Jammalamadugu, Pulivendla, Proddatur, Badvel, Siddhavattam and Rayachoti and Kamalapuram.

Godavari (East), Taluks—Ramchandrapuram, Amalapuram, Bhadrachalam, Rajahmundry, Peddapuram, Cocanada, Pithapuram, Tuni, Polavaram, Chodavaram, Vellavaram, Razole and Nugur.

Godavari (West), Taluks—Tadepalligudem, Bhimavaram, Narasapur, Ellore, Tanuku, Kovvur and Chintalapudi.

Guntur, Taluks—Tenali, Bapatla, Ongole, Narasaraopet, Repalle, Vinukonda, Sattenapalle, Guntur and Palnad

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Kistna, Taluks —Gudivada, Bandar, Divi, Bezvada, Nandigama, Nuzvid, Gannavaram, Tiruvur and Kalkalur

Kurnool, Taluks —Koikuntla, Nandyal, Pattikonda, Nandikotkur, Cumbum, Markapur, Sirvel, Dhone, Kurnool

Madras, Taluk —Madras, the seat of the Governor of Madras

Madura, Taluks —Madura, Dindigul, Tirumangalam, Melur, Palni, Periyakulam, Nilakkottal and Kodakanal

Malabar (Calicut), Taluks —Ponnani, Ernad, Kurumbrand, Palghat, Walluvanad, Wynaad, Calicut, Chirakkal, Kottayam and Cochin

Nellore, Taluks —Nellore, Gudur, Atmakur, Kandukur, Kavali, Udayagiri, Kanagiri, Repur, Darsi, Podili, Venkatagiri, Kovur and Salurpet

Nilgiris, The Taluks —Coonoor, Ootacamund and Gundalur

North Arcot, Taluks —Wandiwash, Gudiyattam, Vellore, Polur, Arni, Cheyyar Tirupattur, Tiruvannamalai, Wallajah, Arakonam and Chengam

Ramnad, Taluks —Ramnad, Mukkulattur, Paramagudi, Arupukkottai, Tirupattur Tiruvadanai, Sivaganga, Srivilliputtur and Sattur

Salem, Taluks —Salem, Tiruchengode, Attur, Hosur, Krishna-giri, Dharmapuri, Namakkal, Rasipur, Omalur, Harur and Yercaud.

South Arcot (Cuddalore) Taluks —Chidambaram, Vilupuram, Cuddalore, Tindivandam, Tirukoyillur, Virddhachalam, Kallakurichi and Gingee

South Kanara (Mangalore), Taluks —Mangalore, Udipi, Kasaragod, Puttur, Coondapoor and Karkal

Tanjore, Taluks —Kumbakonam, Nannilam, Negapatam, Tanjore, Mayavaram, Tirutturaiyandi, Pattukottai, Mannargudi, Shiyali, Papanasam and Arantangi

Tinnevelly (Palamcottah), Taluks —Srivaikuntam, Ambasamudram, Tinnevelly Nanguneri, Sankarancovil, Tenkasi, Tiruchendur, Kolpatti and Anjengo

Trichinopoly, Taluks —Trichinopoly, Mustru, Udaiyarpalayam, Perambalur, Kulittalai, Lalgudi and Karur

Vizagapatam, Taluks —Golconda, Sarvasiddhi, Palakonda, Anakapalle, Viravalli, Vizagapatam, Srungavarapukota, Vizianagram, Salur, Bobbili, Chikurupalli, Gudem, Chicacole, Tekkali, Ichchpur, Patapatnam, Parvatipur, Sompeta and Bimlipatam

## 4.—BIHAR—Under a Governor.

In Four Divisions under Commissioners and 16 Districts.

(1) PATNA DIVISION.  
(Hd Qr —Bankipur).

Patna (Bankipur), S D—City Sub-Division Patna Sadar, Dinapore, Barh and Bihar Gaya, S D—Gaya, Nawada, Jahanabad and Aurangabad. Shahabad (Arrah), S D—Arrah, Buxur, Sasaram and Bhabhua

(2) TIRHUT DIVISION  
(Hd Qr —Muzaffarpur).

Saran (Chapra), S D—Chapra, Gopalganj and Siwan Champaran (Motihari), S D—Motihari and Bettiah

Muzaffarpur, S D—Sitamarhi, Muzaffarpur and Hapur Darbhanga (Laheria Sarai), S D—Madhubani, Laheria Sarai and Samastipur

(3) BHAGALPUR DIVISION  
(Hd. Qr —Bhagalpur)

Bhagalpur, S D—Bhagalpur, Supaul, Madhipura and Banka Monghyr S D—Monghyr, Begusarai and Jamui Purnea, S D—Araria (Hd. qrs at Basantpur), Kishanganj and Purnea

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Santhal Parganas (Naya Dumka), S D—Deoghar, Dumka, Godda, Jamtara, Rajmahal and Pakaur.

**(4) CHOTA NAGPUR DIVN.**

(Hd. Qr.:—Ranchi).

Hazaribagh, S D—Hazaribagh, Chatra and Giridih.

Ranchi, S D—Ranchi, Khunti Gumla and Simdega.

Palamau (Daltonganj), S D—Daltonganj and Latehar.

Manbhum (Purulia), S D—Purulia and Dhanbad.

Singbhum (Chaibassa), S. D—Chaibassa and Dhalbhum (Hd. Qr. at Jamshedpur).

**5.—THE UNITED PROVINCES OF AGRA & OUDH**

—Under a Governor.

**In 10 Divisions (8 under Commissioner, Kumaun under a Deputy Commissioner and Jhansi under a Collector.)**

**(1) MEERUT DIVISION.**

Dehra Dun, Tahsils:—Dehra Dun and Chakrata.

Saharanpur, Tahsils —Saharanpur, Deoband, Roorkee and Nakur.

Muzaffarnagar, Tahsils —Muza-farnagar, Kairana, Jansath and Budhana

Meerut, Tahsils —Meerut, Gha-zabad, Marwana, Baghat, Sar-dhana and Hapur.

Bulandshahr, Tahsils.—Anup-shahr, Bulandshahr, Sikandra-bad and Khurja.

**(2) AGRA DIVISION.**

Aligarh, Tahsils —Atrauli, Aligarh, Iglas, Hathras, Sikandra Rao and Khair.

Muttra, Tahsils —Muttra, Chhata, Mat and Sadabad-Mahaban.

Agra, Tahsils —Itmadpur, Firo-zabad, Bah, Fatehabad, Agra, Kiraoli and Kheragarh

Mainpuri, Tahsils.—Mainpuri, Bhongaon, Karhal, Shikohabad and Mustafabad

Etah, Tahsils —Etah, Jalesar, Kasganj, Aliganj.

**(3) ROHILKHAND DIVISION.**

Bareilly, Tahsils —Faridpur, Bareilly, Aonla, Baheri and Nawabganj

Bijnor, Tahsils —Bijnor, Najibabad, Nagina and Dhampur

Budaun, Tahsils —Gunnaur, Bisauli, Sahaswan, Budaun and Dataganj.

Moradabad, Tahsils.—Moradabad, Thakurdwara, Bilari, Sambhal, Amroha and Hasanpur.

Shahjahanpur, Tahsils —Shah-jahanpur, Jalalabad, Tilhar and Pawayan

Pilibhit, Tahsils —Bisalpur, Pilibhit and Puranpur.

**(4) ALLAHABAD DIVISION.**

Farrukhabad (Fatehgarh), Tahsils —Kanaul, Chhibramau, Farrukhabad and Kaimganj.

Etawah, Tahsils —Etawah, Bharthana, Bidhuna and Auraiya

Cawnpore, Tahsils —Akbarpur, Bilhaur, Bhognipur, Cawnpore, Derapur and Ghatampur.

Fatehpur, Tahsils —Fatehpur, Khajua and Khaga.

Allahabad, the seat of the Governor, Tahsils —Sirathu, Manjhanpur, Soraon, Phulpur, Handia, Karchhana, Meja and Chail.

**(5) JHANSI DIVISION.**

Jhansi, Tahsils.—Jhansi, Mau, Garotha, Moth, Lalitpur and Mahroni

Jalaun, Tahsils.—Orai, Kalpi, Jalaun and Kunch.

Hamirpur, Tahsils.—Hamirpur, Rath, Mahoba and Maudaha

Banda, Tahsils —Banda, Girwan, Baberu, Mau and Karwi.

**(6) BENARES DIVISION.**

Benares, Tahsils.—Benares and Chandauli

**BENGAL SWEETS** supplies directions for the preparations of all varieties of sweetmeats of Bengal. Re. 1/12. Industry Book Dept., Calcutta.

Mirzapur, Tahsils:—Mirzapur, Chunar, Robertsganj, Stone Mahal and Dudhi.  
 Jaunpur, Tahsils —Jaunpur, Mairahau, Machhlisshahr, Shahganj, and Kerakat.  
 Ghazipur, Tahsils —Ghazipur, Muhammadabad and Saidpur  
 Ballia, Tahsils —Ballia, Rasra and Bansdih.

#### (7) GORAKHPUR DIVISION.

Gorakhpur, Tahsils:—Gorakhpur, Bangsaon, Hata, Deoria, Padrauna, Maharajganj and Pharendra.

Basti, Tahsils —Domariaganj, Bansi, Harriya, Basti and Khalilabad.

Azamgarh, Tahsils —Azamgarh, Lalaganj, Phulpur, Sagri, Muhammadabad and Ghosi.

#### (8) KUMAUN DIVISION.

Naini Tal, Tahsils —Kitcha, Haldwani, Naini Tal and Kashipur, Almora, Tahsils —Almora and Champawat

Garhwal (British), Tahsils —Pauri and Lansdowne

#### (9) LUCKNOW DIVISION.

Lucknow, Tahsils —Lucknow, Mohanlalganj and Mallhabad Unao, Tahsils —Unao, Safipur, Purwa and Hasanganj

Rae Bareilly, Tahsils —Rae Bareilly, Dalmau, Maharajganj and Saloni

Sitapur, Tahsils —Sitapur, Biswan, Sidhauri and Misrikh. Hardoi, Tahsils —Hardoi, Shahabad, Bilgram and Sandila.

Kheri (Lakhimpur), Tahsils —Muhamdi, Nighasan and Lakhimpur.

#### (10) FYZABAD DIVISION.

Fyzabad, Tahsils —Akbarpur, Bikapur, Fyzabad and Tanda. Gonda, Tahsils —Gonda, Taraganj and Utraula

Bahraich, Tahsils —Bahraich, Kaisarganj and Nanpara

Sultanpur, Tahsils —Sultanpur, Amethi, Musafirkhana and Kadipur.

Partabgarh, Tahsils —Partabgarh, Kunda and Patti.

Bara Banki, Tahsils —Ramsanchighat, Nawabganj, Fatehpur and Haidargarh.

### 6.—THE PUNJAB—Under a Governor.

#### In Five Divisions under Commissioners and 29 Districts.

DELHI, Imperial Enclave, Capital of India and seat of Viceroy, under a Chief Commissioner.

#### (1) AMBALA DIVISION.

Hissar, Tahsils —Hissar, Hansi, Bhiwani, Fatehabad, Sirsa, Tohana (E T) and Debwali (S T.) Rohtak, Tahsils —Rohtak, Sonapat, Jhajjar and Gohana.

Gurgaon Tahsils —Gurgaon, Firozpur Jhirka, Nuh, Palwal, Rewari and Ballabgarh

Karnal, Tahsils —Karnal, Panipat, Kaithal, Thanesar and Guhla (S T)

Ambala Tahsils —Ambala, Kharrar, Jagadhri, Naraingarh, Rupar and Kalka (S T)

Simla Tahsils —Simla and Kotkhai

#### (2) JULLUNDUR DIVISION.

Kangra, Tahsils —Kangra, Dehra Hamirpur, Nurpur, Kulu and Palampur

Hoshiarpur, Tahsils —Hoshiarpur, Dasuya, Gurhsankar and Una

Jullundur, Tahsils —Jullundur, Nawashahr, Pillaur and Nako-dar.

Ludhlana, Tahsils —Ludhlana, Jagraon and Samrala.

Firozpur, Tahsils —Firozpur, Zira, Moga, Kuktesar, Fazilka, Abohar (S T), and Nalhana

#### (3) LAHORE DIVISION.

Lahore, seat of the Govt Tahsils —

Lahore, Chumian and Kasur Amritsar, Tahsils —Amritsar, Tarn Taran and Ajnala.

**PRACTICAL METAL CASTING**—A comprehensive treatise on the art of founding with practical details. Rs. 2/8. Industry Book Dept., Calcutta.

Gurdaspur, Tahsils—Gurdaspur, Batala, Pathankot, Shakargarh and Dalhousie (S T).  
Sialkot, Tahsils—Sialkot, Pasrur, Narowal and Daska.

Gujranwala, Tahsils—Gujranwala, Wazirabad and Hahzabad.

Sheikhupura Tahsils.—Sharkpur (S T), Nankana Sahib, Shahdara and Sheikhupura.

#### (4) RAWALPINDI DIVISION.

Gujrat, Tahsils:—Gujrat, Khartan and Phalia.

Shahpur. Tahsils—Shahpur, Khushab, Bhalwal, Bhera and Sargodha.

Jhelum, Tahsils:—Jhelum, Pind Dadan Khan and Chakwal.

Rawalpindi, Tahsils—Rawalpindi, Gujar Khan, Muiree and Kahuta.

Attock, Tahsils:—Attock, Pindigheb, Talagang and Fatehjang. Mianwali, Tahsils.—Mianwali, Bhakkar, Isa Khel

#### (5) MULTAN DIVISION.

Montgomery, Tahsils.—Montgomery, Okara, Dipalpur and Pakpattan.

Dera Ghazi Khan, Tahsils—Dera Ghazi Khan, Sangarh, Rajanpur, Jampur and Dhundi (Estate).

Muzaffargarh, Tahsils:—Muzaffargarh, Alipur, Kot Adu and Leiah

Multan, Tahsils—Multan, Shujabad, Lodhran, Khanewal, Mailsi and Kabirwala.

Jhang, Tahsils.—Jhang, Chiniot and Shorkot

Lyallpur, Tahsils—Lyallpur, Samundri, Jaranwala and Toba Tek Singh.

### 7.—C. P. & BERAR—Under a Governor.

#### In Four Divisions under Commissioners and 19 Districts.

##### (1) NAGPUR DIVISION.

(Hd. Qr. Nagpur).

Nagpur, S D.—Nagpur, Kamptee, Ramtek, Umrer, Katol and Saoner.

Wardha, S. D—Wardha, Hingnath and Arvi.

Betul, S. D—Betul and Bhainsdehi

Chhindwara, S D—Chhindwara, Sausar, Seoni and Laknadon

Chanda, S. D—Chanda, Warora, Brahmapuri, Sironcha and Garchuroli

##### (2) JUBBULPUR DIVISION.

(Hd. Qr. Jubbulpur).

Jubbulpur, S D—Jubbulpur City, Sihora and Murwara

Saugor, S. D—Saugor, Rehli, Khurai, Banda, Damoh and Hatta.

Mandla, S D—Mandla, Dindori

Hoshangabad, S D—Hoshangabad, Seoni-Malwa, Harda, Pachmarhi, Sohagpur, Narsinghpur, Gadarwara.

Nimar, S D—Khandwa, Burhanpur and Harsud.

##### (3) CHHATTISGARH DIVN.

(Hd. Qr. Raipur).

Raipur, S D—Raipur, Dhamtari. Bilaspur, S D—Bilaspur, Mungeli and Janjgir.

Drug, S D—Drug.

Bhandara, S D—Bhandara, Gondia and Sakoli.

Balaghat, S D—Balaghat, Baihar and Waraseoni

##### (4) BERAR DIVISION.

(Hd. Qr. Amraoti).

Amraoti, S D—Amraoti, Chandur, Morsi, Ellichpur, Daryapur and Melghat.

Yeotmal, S. D—Yeotmal, Darwha, Kelapur, Wun and Pusad.

Akola, S. D—Akola, Balapur, Akot, Murtizapur, Mangrul and Basim

Buldana, S. D—Chikhli, Mehkar, Malkapur, Khamgaon, Jalgaon.

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# **8.—ASSAM—Under a Governor.** **In Two Divisions under the Commissioner of Divisions** **and 14 Districts.**

## **(1) SURMA VALLEY AND HILL DISTRICTS.**

Cachar (Silchar), S D—Silchar  
Hailakandi and North Cachar  
Hills  
Sylhet, S D—Sylhet Sadar, South  
Sylhet (Maulvi Bazar), Habi-  
ganj, Sunamganj and Karim-  
ganj.  
Khasia and Jaintia Hills, S D—  
Shillong and Jowai.  
Naga Hills (Kohima), S D—  
Kohima and Kokokchang.  
Lushai Hills (Aijal), S D—Aijal  
and Lungleh

**(2) ASSAM VALLEY DISTRICTS.**  
Goalpara (Dhubri), S. D—Dhubri  
and Goalpara  
Kamrup (Gauhati), S D—Gau-  
hati and Barpeta  
Darrang (Tezpur), S D—Tezpur  
and Mangaldai  
Nowgong, S D—Nowgong.  
Sibsagar (Jorhat), S D—Jorhat,  
Sibsagar and Golaghat  
Lakhimpur (Dibrugarh), S D—  
Dibrugarh and North Lakhim-  
pur  
Garo Hills (Tura), S D—Tura  
Sadiya Frontier Tract (Sadiya),  
S D—Sadiya, Pasighat  
Balipara Frontier Tract (Char-  
duar), S D—Charduar

# **9.—NORTH-WEST FRONTIER PROVINCE** **—Under a Governor.**

**(1) PESHAWAR DIVISION.**  
Hazara, Tahsils —Abbottabad  
Haripur, Mansehra, Oghi, and  
Hazara Galis  
Peshawar, Tahsils —Peshawar,  
Charsada and Nowshera

**(2) MARDAN DIVISION.**  
Mardan, Tahsils —Mardan and  
Swabi

**(3) DERAJAT DIVISION.**  
Kohat, Tahsils —Kohat, Hangu  
and Teri  
Bannu, Tahsils —Bannu and Mar-  
wat (Lakki)

Dera Ismail Khan, Tahsils —Dera  
Ismail Khan, Kulachi, Tank  
Sherani Country and Jandola.

## **(4) AGENCY DIVISION.**

Khyber Agency  
Kurram Agency, Tahsils —Para-  
chnar.  
Dir, Swat and Chitral Agency,  
Hd Qr Malakand Tahsils —  
Chitral, Upper Swat and Sam  
Ranizai, (Lower Swat).  
North Waziristan and South Wa-  
ziristan Agencies.

# **10.—SIND—Under a Governor.**

**(1) KARACHI DISTRICT.**  
(Hd. Qr. Karachi).  
Tatta, S Taluks —Karachi, Tatta,  
Ghorabari, Mirpur Sakro, Ket-  
bandar (Mahal)  
Shahbandar, S D Taluks —Shah-  
bandar, Jati, Mirpur Bathoro,  
Sujawal

**(2) DADU DISTRICT.**  
(Hd. Qr. Dadu).  
Shewan, S. D Taluks —Sehwan,  
Kotri, Kohistan (Mahal)  
Dadu, S D Taluks —Dadu, Johi,  
Kakar, Mehar.

**(3) LARKANA DISTRICT.**  
(Hd. Qr. Larkana).  
Kambar, S D Taluks —Kambar,  
Mirokhan, Warah, Shahdadkot  
Larkana, S D Taluks —Larkana,  
Labdarya, Ratodero

**(4) UPPER SIND FRONTIER  
DISTRICT.**  
(Hd. Qr. Jacobabad).  
Jacobabad, S D Taluks —Jaco-  
babad, Gaihi Khairo  
Kandhkot, S D Taluks —Kandh-  
kot, Thul, Kashmore

Modern foundry shop practice is described in **PRACTICAL METAL  
CASTING**, Rs. 2/8, Industry Book Dept, Shambazar, Calcutta.

**(5) SUKKUR DISTRICT.**  
(Hd. Qr. Sukkur).

Rohri, S D Taluks — Rohri, Pano  
Akil, Ghotki, Mirpur Mathelo,  
Ubauro

Shikarpur, S D Taluks — Sukkur,  
Shikarpur, Garhi Yasin

**(6) NAWABSHAH DISTRICT.**  
(Hd. Qr. Nawabshah).

Naushahro, S D Taluks — Nau-  
shahro, Kandiaro, Mero, Sak-  
rand

Nawabshah, S D Taluks — Nawab-  
shah, Shahdadpur, Sinjhora

**(7) HYDERABAD DISTRICT.**  
(Hd. Qr. Hyderabad).

Hala, S D Taluks — Hyderabad,  
Tando Allahyar Hala

Tando, S D Taluks — Gunj, Dero  
Mohbat, Tando Bago, Badin.

**(8) THAR PARKAR DISTRICT.**  
(Hd. Qr. Mirpurkhas).

Nara Valley, S D Taluks —  
Khipro, Samaro, Sanghar,  
Umarkote.

Desert, S D Taluks — Mithi,  
Chachro, Diplo, Nagar Parkar.

Mirpurkhas S D Taluks — Mir-  
purkhas, Jamesabad, Digri

**11.—ORISSA—Under a Governor.**

In 6 Districts covering an area of 32,750 square miles.

**(1) CUTTACK DISTRICT.**  
(Hd. Qr. Cuttack).

Sadar, S D Thanas — Cuttack,  
Banki, Salepur, Tirtol, Jagat-  
singhpur.

Kendrapara, S D Thanas —  
Kendrapara, Patamundai, Aul  
or Rajabari.

Jajpur, S D Thanas — Jajpur,  
Dharamsala

Angul, S D Thana — Angul

**(2) BALASORE DISTRICT.**  
(Hd. Qr. Balasore).

Bhadrak, S D Thanas — Bhad-  
rak, Basudevpur, Dhamnagar,  
Chandbali.

Sadar, S D Thanas — Soro, Bala-  
sore, Jaleswar, Bahapal, Basta

**(3) PURI DISTRICT.**  
(Hd. Qr. Puri).

Sadar, S D Thanas — Puri, Gop,  
Pipli

Khurda, S D Thanas — Khurda,  
Banpur

**(4) SAMBALPUR DISTRICT.**  
(Hd. Qr. Sambalpur).

Sadar, S D Thanas — Sambalpur,  
Jharsugra, Laikera, Mura, Ram-

PELLA, Katrabaga, Sason, Dhama,  
Mundher, Padampur

Bargarh, S D Thanas — Bargarh,  
Attabira, Sohela, Ambabhona,  
Padampur Bheian, Bijepur,  
Melchhamunda, Gaisilet, Jag-  
dalpur, Barpali, Bhatli, Paik-  
mal

Nawapara, S D Thanas — Nawa-  
para, Kharior, Komna.

**(5) GANJAM DISTRICT.**  
(Hd. Qr. Chatrapur).

Chatrapur, S D Taluks — Kodala,  
Chatrapur

Berhampur, S D Taluks — Ber-  
hampur, Parlakumidi.

Ghumsur, S D Taluks — Ghum-  
sur, Aska, Surada

Balliguda, S D Taluks — Balli-  
guda, G Udayagiri.

Khondmal, S D Thana — Phul-  
bani.

**(6) KORAPUT DISTRICT.**  
(Hd. Qr. Koraput).

Koraput, S. D. Taluks — Jeypore,  
Nowrangapur, Koraput, Poltan-  
gi, Malkangiri

Gunupur, S D Taluks — Gunu-  
pur, Bisamcuttak, Rayaghada

**CIVIL DIVISIONS OF INDIAN STATES****STATES IN IMMEDIATE POLITICAL RELATIONS WITH THE  
GOVERNMENT OF INDIA.**

1 Hyderabad, under the Nizam  
and a Resident, at Hyderabad

2 Mysore, under the Maharaja  
and a Resident in Mysore.

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|---|---|
| <ol style="list-style-type: none"> <li>3. Jammu and Kashmir, under the Maharaja, and a Resident in Kashmir</li> <li>4. Gwalior, under the Maharaja and a Resident at Gwalior.</li> <li>5. Baroda, under the Maharaja and Agent to Governor General, Gujrat States and Resident at Baroda</li> <li>6. Bhutan, under the Maharaja and a Political Officer in Sikkim</li> <li>7. Sikkim, under the Maharaja and a Political Officer in Sikkim</li> <li>8. States included in the Baluchistan Agency, under the A G G in Baluchistan</li> <li>9. States forming the Central India Agency, under the A G G, in Central India.</li> <li>10. States forming the Deccan States Agency, under the A G G Deccan States and Resident at Kolhapur.</li> </ol> | <ol style="list-style-type: none"> <li>11. States forming the Eastern States Agency, under the A. G G Eastern States</li> <li>12. States forming the Gujarat States Agency, under the A G G., Gujarat States and Resident at Baroda.</li> <li>13. States forming the Madras States Agency, under the A. G G, Madras States</li> <li>14. States included in the N. W. F. Province, under the Governor and A G G, N. W. F. Province.</li> <li>15. States forming the Punjab States Agency, under the A G G, Punjab States</li> <li>16. States forming the Rajputana Agency under the A G. G., in Rajputana</li> <li>17. States forming the Western India States Agency under the A G G, in the States of Western India.</li> <li>18. States in Relations with the Provincial Governments</li> </ol> |
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## 1.—THE NIZAM'S DOMINIONS—(Hyderabad State).

### Sixteen Districts Under Four Subas.

<p><b>(1) SUBA AURANGABAD.</b></p> <p>Aurangabad Bir Parbhani. Nander</p> <p><b>(2) SUBA GULBURGA.</b></p> <p>Gulburga Raichur. Osmanabad. Bidar</p>	<p><b>(3) SUBA WARANGAL.</b></p> <p>Warangal. Adilabad Karimnagar. Nizamabad.</p> <p><b>(4) SUBA MEDAK.</b></p> <p>Medak Mahboobnagar. Nalgonda. Baghat</p>
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## 2.—MYSORE STATE.

For administrative purposes the State has been constituted into nine revenue Districts each under the control of a Deputy Commissioner and District Magistrate. The nine Districts with the Taluks and Sub-Taluks under its charge are as follows.—

<p><b>Bangalore District.</b> Taluks— Bangalore, Hoskote, Doddballapur, Nelamangala, Kankanhalli, Magadi, Closepet, Chennapatna, Anekal and Devanhalli</p> <p><b>Hassan District.</b> Taluks—Hassan, Manjarabad, Belur, Arsikere, Chennarayapatna, Hole-Narsipur, Arkalgud and Alur</p>	<p><b>Kolar District.</b> Taluks—Kolar, Bowringpet, Chintamani, Sriniwasapur, Mulbagal, Sidiaghatta, Chickballapur, Bagepalli, Gori-bidnur, Malur, Gudibanda and Kolar Gold Fields Sanitary Board Area.</p> <p><b>Tumkur District.</b> Taluks—Tumkur, Madhugiri, Chiknayakan-</p>
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Modern Methods of extracting, refining and bleaching of oils are explained in "Vegetable Oil Industry." Re. 1/12. Industry Book Dept., Cal.

halli, Sira, Gubbi, Tiptur, Pavagada, Kunnigal, Koratagere and Turuvekera.	Kadur District. Taluks.—Tarikere, Chickmagalur, Kadur, Koppa, Mudigere, Narasimharajapur and Sringeri.
Mysore District Taluks.—Mysore, Chamarajnagar, Hunsur, Yedatore, Heggadevankote, Gundlupet, Nanjangud, T-Narsipur, Periyapatna and Yelandur	Shimoga District. Taluks.—Chennagiri, Honnali, Nagar, Shikarpur, Shimoga, Sorab, Tirthahalli, Sagar and Kumsi.
Mandya District. Taluks.—Serinapatam, French Rocks, Nega-mangala, Krishnarajpet, Madur, Malvalli and Mandya	Chitaldrug District. Taluks.—Chellakere, Chitaldrug, Davangere, Hiriyur, Holalkere, Jagalur, Molakalmuru, Hosdurga and Harihar.

### 3.—KASHMIR & JAMMU—Under the Maharaja.

### 4.—GWALIOR—Under the Maharaja and a Resident.

### 5.—BARODA—Under a Maharaja and A. G. G. Gujrat States and Resident at Baroda.

### 6.—BHUTAN—Under a Maharaja and a Political Officer in Sikkim.

### 7.—SIKKIM—Under a Maharaja and a Political Officer in Sikkim.

## STATES AGENCY.

Baluchistan Agency:—Kalat, Las Bela.	Eastern States Agency:—Athgarh, Athmallik, Bamra, Baramba, Bastar, Baudh, Bonai, Chhangbhar, Chhuikhadan, Cooch Behar, Daspalla, Dhenkanal, Gangpur, Hindol, Jashpur, Kalahandi, Kanker, Kawardha, Keonjhar, Kharagarh, Khandpara, Kharsawan, Korea, Mayurbhanj, Nandgaon, Narsinghpur, Nayagarh, Nilgiri, Palahara, Patna, Raigarh, Rairakhol, Ranpur, Sakti, Sarangarh, Seraikela, Sonapur, Surguja, Talcher, Tigria, Tripura, Udaipur
Central India Agency:—Indore, Bhopal, Rewa, Orchha, Datia, Dhar, Dewas (Senior Branch) Dewas (Junior Branch), Samthar, Jaora, Ratlam, Panna, Charkhari, Ajaigarh, Bijawar, Baoni, Chhatarpur, Sitamau, Sailana, Rajgarh, Narsingharh, Baraundha, Nagod, Maihar, Jhabua, Barwani, Ali Rajpur, Khilchipur and 69 Non-Salute States	Gujarat States Agency:—Rajppla, Cambay, Dharampur, Bansda, Chhota-Udepur, Baria, Lunawada, Balasinor Sant, Sachin, Jawhar and 70 Non-Salute States and Estate
Deccan States Agency:—Kolhapur, Janjira, Sawantwadi, Mudhol, Sangli, Bhor, Aundh, Akalkot, Phaltan, Jath, Savanur, Miraj (Senior), Miraj (Junior), Jamkhandi, Kurundwad (Senior), Ramdurg, Kurundwad (Junior).	

Modern Methods of extracting, refining and bleaching of oils are explained in "Vegetable Oil Industry." Re. 1/12. Industry Book Dept, Cal.

**Madras States Agency:**—Travancore, Cochin, Pudukkottai, Banganapalle, Sandur

**North-West Frontier Province Agency:**—Chitral and 4 Non-Salute States

**Punjab States Agency:**—Patiala, Bahawalpur, Khairpur, Jind, Nabha, Kapurthala, Sirmur (Nahan), Mandi, Bilaspur (Kahlur), Maler Kotla, Faridkot, Chamba, Suket, Loharu

**Rajputana States Agency:**—Udaipur (Mewar), Jaipur, Jodhpur (Marwar), Bundi, Bikaner,

Kotah, Karauli, Kishengarh, Bharatpur, Jaissalmer, Alwar, Tonk, Dholpur, Sirohi Dungarpur, Partabgarh, Banswara. Palanpur, Jhalawar, Shahpura, Danta and 2 others

**Western India States Agency:**—Cutch, Idar, Junagadh, Nawalnagar, Bhavnagar, Porbandar, Dharangadhra, Radhanpur, Morvi, Gondal, Wankaner, Palitana, Dhrol Limbdi, Rajkot, Wadhwan, Manawadar, Jasdan, Sardargarh, Muli, Sayla, Katosan, Lakhtar, Mohiya and 228 Non-Salute States and Estates

## STATES IN RELATION WITH PROVINCIAL GOVTS.

**States in Assam:**—Manipur and 15 others

**States in Bengal Presidency:**—Cooch Behar, Tripura

**States in the Punjab:**—Bashahr and 20 others.

**States in the United Provinces:**—Rampur, Benares, Tehri-Garhwal

## NON-BRITISH TERRITORIES IN INDIA

### FRENCH TERRITORIES.

#### IN BENGAL.

Chandernagore

#### IN MADRAS.

Karikal, in the Cauveri Delta

Mahe in Malabar

Pondicherry, in S Arcot, seat of Government

Yanaon, in the Godavari Delta.

### PORTUGUESE TERRITORIES.

#### IN BOMBAY.

Damaun, near Surat  
Diu, Kathiawar.

Goa, the seat of Govt adjoining N Canara.

### POPULATION OF INDIA.

The total population of India is placed at 388,800,000, of which British India's share is 295,827,000 and that of Indian States 92,973,000. The All-India population at the 1931 census was 388.1 millions.

The 1931 census recorded an increase in the population of about 10½ per cent, while the 1941 census shows an increase of 15 per cent. The level of increase in British India is 15.2 per cent and in the States and Agencies 14.3 per cent.

**"Careers of Agents and Middlemen"** A reliable guide on the functions, Scopes and qualifications of Agents and Middlemen. Price Re. 1/4.

# MARKET PLACES OF BENGAL

**T**HE Province of Bengal covers an area of 80,000 square miles and is inhabited by 60,314,000 people of whom Moslems number 3,30,00,000 which is an increase of 55,03,000 over 1931 figures and Hindus number 2,64,50,000, an increase of 48,80,000 over 1931 figures. Percentage of Moslem and Hindu population in 1941 is 54.73 and 43.8 respectively as against 54.87 and 43.08 in 1931.

The Province of Bengal is watered by a net-work of rivers including the Ganges and the Brahmaputra bringing down during inundation rich alluvial deposits of silt which greatly contributes to the fertility of the soil. Of the total area in Bengal 24.7 million acres are normally under cultivation, of which only 1.9 million acres are irrigated. Area of land lying fallow is 5.0 million acres and that of culturable waste 6.8 million acres. The Sunderbans extending along the margin of the Bay of Bengal together with the other forests occupy an area of 4.7 million acres.

**Produce:**—Rice is the staple crop of the Province and is grown on about 21 million acres, the other food grains under tillage are wheat, gram, barley, maize and pulses and cover about 2.0 million acres. Next in importance is the jute crop which thrives best in the Ganges-Brahmaputra delta. The area under this crop is over 1.1 million acres while the yield is about 43 lakhs of bales of 400 lbs. each. Oil seeds are cultivated over 1 million acres of which by far the most important crop is rape and mustard seed (753,000 acres). Among the other oil seeds mention may be made of linseed (155,000 acres), sesamum (174,000 acres), and groundnut (3,000 acres). Tea is planted over 201,000 acres. Other crops are sugarcane, tobacco, sugar yielding palms, condiments and spices. Among the fruits grown in the Province the most important are mango, plantain, pineapple, jack fruit, guava, custard apple and several varieties of figs and melons. Arecanut and coconut plantations are largely found in S. E. Bengal. Mangoes of Maldah have a good reputation. Vegetables are cultivated everywhere. The area under fodder crops is 115,000 acres.

The districts where the products of Bengal are most prolific are mentioned below. Rice—Backerganj, Dacca, Faridpur, Midnapur, Mymensingh, Rangpur, Dinajpur, Tipperah, Wheat—Malda, Murshidabad, Nadia, Rajshahi, Pabna, Barley—Murshidabad, Dacca, Malda, Faridpur, Mymensingh, Gram—Murshidabad, Nadia, Rajshahi, Linseed—Nadia, Murshidabad, Jessore, Sesamum—Mymensingh, Pabna, Dacca, Rape and Mustard—Mymensingh, Pabna, Rangpur, Rajshahi, Dacca, Bogra, Dinajpur, Jalpaiguri, Coconut—Khulna, Sugarcane—Faridpur, Dacca, Mymensingh, Rangpur, Dinajpur, Date palm—Hooghly, Jessore, Cotton—Chittagong Hill Tract. Jute—All districts, Tobacco—Rangpur, Jalpaiguri, Mymensingh, Fruits and Vegetables—Backerganj, Dacca, Mymensingh, Murshidabad, Fodder Crops—Mymensingh, Total area sown—About 25 million acres.

The following table summarises the areas under crops during the last five years —

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**"Careers of Agents and Middlemen"** A reliable guide on the functions, Scopes and qualifications of Agents and Middlemen. Price Re. 1/4.

## 350 INDUSTRY YEAR BOOK & DIRECTORY, 1943

	1936 -37	1937 -38	1938 -39	1939 -40	1940 -41
	(in 1,000 acres)				
Rice	21,993	22,202	21,988	22,255	20,770
Wheat	149	161	147	177	169
Barley	95	95	101	98	102
Maize	73	74	67	68	85
Gram	242	279	342	310	319
Other food grains	1,012	1,196	1,302	1,255	1,335
Linseed	131	137	156	157	155
Sesamum	184	210	188	180	174
Rape and Mustard	740	771	777	764	753
Condiments and spices	164	174	178	168	173
Sugarcane	355	290	299	316	331
Cotton	58	58	96	58	81
Jute	2,203	2,521	2,504	2,504	3,607
Tea	203	202	201	201	201
Tobacco	307	313	316	317	332
Fruits and Vegetables	767	816	417	818	835

**Major Industries.**—Jute mills of Bengal have, so to speak, a mono poly business in jute products in India. There are in all 96 mills situated chiefly on either bank of the Hooghly. Demand for jute products has gone up since September, 1939 when war broke out. Capital invested in the industry is Rs 19.37 lakhs + £2.5 million + \$3.7 million. There are besides about 40 jute presses in Bengal.

Another big industry having immense possibilities in the province is the cotton mills. There are 33 mills in the province and about 20 mills are under construction. Number of spindles installed amounted in 1941 to 4,59,000 and that of looms to 10,600. Persons employed in the mills totalled 21,585. Mills of Bengal consumed during 1941-42 117,000 bales of cotton of  $3\frac{1}{2}$  cwt each. In 1941-42 Bengal spun 59 million lbs of twist and yarn and 194 million lbs of piecegoods as against 58 million lbs and 41.7 million yards in 1940-41.

Indian Iron and Steel Co. with which is associated with the Bengal Iron Works produced 668,106 tons of pig iron in 1939-40 of which 386,516 tons were produced at Hirapur and 281,590 tons at Kulti. The National Iron & Steel Co. Ltd. have their workshop at Belur where they manufacture iron and steel products such as rounds, square, flats, angles, joists, rails, bolts, nuts, rivets, etc. Railway wagons are made by Indian Standard Wagon Co. Ltd. at their factory at Santa near Asansol.

Iron and steel is melted at Hirapur, Kulti and has great possibilities. Paper is made in 4 mills at Titagarh, Kankinara, Ranigunge and Naihati, the last named mill producing paper pulp also. Three cardboard making factories are also in operation in Bengal.

About 16 factories employing a total of about 8,000 workers are engaged in making rubber soled shoes. Bicycle and motor tyres are also produced, and the Dunlop Rubber Company have established a large factory at Sahaganj, Hooghly and the Bata Shoe Factory at Batanagar where 5,368 operatives are at work.

Special mention should be made of the celluloid goods, incandescent mantles and electrical bulbs and fans which are being produced in huge quantities in the province. Matches, glass bottles, potteries, soap, toilet goods, chemicals, paints, hosiery goods, etc. are also manufactured in big quantities.

**Manufacturing processes of paints, varnishes and sealing waxes are explained in Prospective Industries. Re. 1/12. Industry Book Dept., Cal.**

Rice milling and oil pressing are the other big industries in Bengal. There are rice mills about 400 in number employing 18,000 hands. Oil mills generally press mustard oil.

In 1941-42 there were 9 sugar mills in operation which crushed 313,600 tons of cane, yielding 23,700 tons of sugar. Production in 1938-39 was only 9,700 tons.

In 1940-41, 532,000 tons of gur were produced. The average yearly production of gur in Bengal is 527,000 tons.

Tea industry flourishes most in the Darjeeling and Jalpaiguri Districts in the province. Production is about 115 million lbs in the province. Area under tea in 1939 was 211,768 acres distributed among 412 estates employing about 500,000 hands.

Among other major industries of the province may be mentioned. kerosene tinning and packing, general engineering, lead smelting and lead rolling mill, bakeries, saw mills, flour mills, musical and surgical instrument making. New industries in the making in Bengal include ampoules and glassware for medical purposes, screws and wirenails, iron rods, metalwares, optical instruments, plywood, tent making, etc. War industries have also received a great impetus.

**Cottage Industries:**—Hand-loom weaving is by far the most important and widespread cottage industry of the province of Bengal. From no district or centre is it absent, while in some centres such as Santipur in Nadia, Chowmohani in Noakhali, Sonamukhi and Vishnupur in Bankura, practically the whole population is absorbed in hand loom weaving but, almost always with some stake in the agricultural operations as a source of food supply.

Another striking and wide-spread home industry in Bengal is that of brass and bell-metal manufacture, for dietary purpose such as lotas, thalis, etc.

Sericulture is another important cottage industry in Bengal. Silk worm is reared in W Bengal and silk reeling is carried on, but the industry is suffering from competition from China, Japan, Italy and France and in general from artificial silk.

The handicrafts in the province include pottery, carpentry, leather manufacture, iron manufacture, shell ornaments, embroidery and lace-making, soft stone carving, horn-carving, lac-work, lace-making, toy-making, wood-engraving, ornamental glassware, clay modelling, metal inlaying, ivory carving, gold and silver work, etc., etc.

Cotton carpets are made at Nisbetganj in Rangpur, woollen blankets are woven at Jangipur, filigree gold and silver works of Dacca are famous, cutlery of Kanchannagar is noted. Conchshell bracelets are made at Dacca and umbrella making is carried on at Chittagong, mat making is practised in Midnapur and Rangpur.

Among other industries mention may be made of boat building, book-binding, electro-plating, fishing hooks, gilding, masonry work, button making, watch repairing, etc.

Gur is prepared from palm juice in the 24-Parganas, Howrah, Faridpur and Midnapur.

**Minerals:**—Coal is the chief mining industry. Raniganj fields in the Burdwan District yield about 30 per cent of the coal produced in India. It is situated within about 100 miles of Calcutta. Output of coal during 1939 amounted to 7,591,495 tons of which the major part was obtained from the Raniganj field.

**Irrigation:**—Total area irrigated in Bengal during 1940-41 was 1,798,000 acres of which area irrigated by Government canal is 242,000 acres, by private canals 263,000 acres, by tanks 817,000 acres, by wells 44,000 acres, by other sources 817,000 acres.

Manufacturing processes of paints, varnishes and sealing waxes are explained in Prospective Industries, Re. 1/12. Industry Book Dept., Cal.

**Budget Estimates for 1942-43**—Revenue receipts are estimated at Rs 15,70 lakhs and the Revenue expenditure at Rs 16,75 lakhs. Schemes of civil defence involve expenditure of a little over Rs 4 crores of which Rs 1 crore and 25 lakhs was debitable to Provincial revenues, which largely accounts for the revenue deficits. Although receipts from the new taxation measures, Sales Tax, Raw Jute Sales Tax and Tax on Motor Spirit, will yield an increase of Rs 107 lakhs and receipts from income tax are expected to be Rs 26 lakhs higher, there will be heavy shrinkage in Jute Export Duty, which is expected to be only Rs 125 lakhs as against the average of Rs 227 lakhs of the last two years. No new taxation measure are foreshadowed in the budget.

**Education in 1940-41**—2,551,398 pupils including 268,272 girls were taught in 51,880 primary schools. There were 2,273 middle English schools, 1,451 high schools, 62 arts colleges, 3 law colleges, 3 medical colleges and 9 medical schools.

**Railways** There are about 3,500 miles of railways, about 3,500 miles of metalled roads and about 35,000 miles of unmetalled roads. There are about 2,000 miles of navigable rivers.

**Transport**—Besides railways, the chief transport agencies in Bengal are steamers and country boats. In big towns motor lorries are gradually ousting the indigenous cart for carrying goods.

	1936-37	1937-38	1938-39	1939-40	1940-41
<b>Imports:</b>			(in 1,000 rupees)		
Merchandise	35,75,04	51,60,05	51,38,98	65,12,07	52,61
Treasure	1,41,07	1,71,43	80,27		
<b>Exports:</b>					
Merchandise,					
Foreign	47,31	91,93	92,23	1,40,86	1,02,77
Merchandise,					
Indian	74,90,28	86,16,64	77,97,66	111,98,89	1,02,77
Treasure	19,98	3,57	1,25		

#### DETAILS OF IMPORTS AND EXPORTS.

Details of the chief imports and exports follow.—

	<b>Imports.</b>			
	1936-37	1937-38	1938-39	1939-40
		(in lakhs of rupees)		
Oils	2,09	6,20	5,57	7,35
Machinery and mill work	5,85	7,62	9,79	6,91
Grain, pulse and flour	4	1,44	2,92	6,55
Metals & Ores	4,15	6,53	5,37	5,76
Cotton Goods	4,59	3,95	4,60	4,73
Instruments, apparatus	1,74	2,23	2,23	2,17
Chemicals	1,14	1,45	1,34	1,90
Paper & Pasteboard	97	1,42	1,13	1,27
Spices	74	83	1,57	1,25
Wood and timber	15	1,14	1,15	1,08
Provisions	80	94	94	1,03
Hardware	97	1,31	1,03	94
Motor vehicles	81	95	73	92
Liquors	70	74	68	79
Drugs and medicines	68	82	72	77
Tobacco	41	50	54	68
Tea chests	44	56	69	68
Salt	44	55	37	61
Rubber	43	52	37	48
Paints and painters' materials	35	42	35	46
Railway carriages & wagons	35	75	62	43

Get ideas of profitable occupations from "Independent Careers for the Young." Re. 1/12. Industry Book Dept., Shambazar, Calcutta.

	1936-37	1937-38	1938-39	1939-40
		(in lakhs of rupees)		
Dyeing and tanning substances	27	49	33	41
Wool, raw	33	46	36	39
Manures	23	27	33	37
Postal Articles	53	50	25	36
Glass & Glassware	40	50	41	36
Fruits & vegetables	6	25	26	35
Cycles	35	38	36	32
Artificial Silk	30	53	18	28
Woollen goods	47	70	45	27
Lac	16	7	8	25
Stationery (ex-paper)	25	29	26	25
Parts of motor vehicles (ex-tyres)	16	27	23	25
Building & Engineering materials	20	24	21	24
Cotton, raw	22	45	46	23
Toilet requisites	20	23	23	22
Books	20	24	22	20
Belting	18	22	16	20
Wood pulp	12	14	22	19
Starch	13	18	13	18
Arms	12	19	17	16
Leather	17	19	13	16
Toys	17	19	16	15
	35.76	51.60	51.39	56.12

Other imports in 1939-40 —Printing machine and materials (Rs 13 lakhs), porcelain (Rs 11.6 lakhs), Umbrellas and fittings (Rs 11.2 lakhs), apparel (Rs 10.8 lakhs), bobbins (Rs 10.6 lakhs), haberdashery (Rs 10.6 lakhs), polishes (Rs 8.5 lakhs), cutlery (Rs 8.2 lakhs), soap (Rs 7 lakhs), boots and shoes (Rs 6.8 lakhs), gums and resins (Rs 6.8 lakhs), tallow (Rs 6.4 lakhs) clocks and watches, (Rs 5.4 lakhs), silk raw (Rs 4.7 lakhs), silk goods (Rs 4.7 lakhs)

## Exports

	1936-37	1937-38	1938-39	1939-40
		(in lakhs of rupees)		
Jute Mnfrs	27.91	29.04	26.23	48.49
Tea	15.96	19.85	18.36	20.60
Jute, raw	14.74	14.69	13.33	19.55
Metals, ores and minerals	2.09	4.26	4.01	5.01
Coal and coke	20	99	1.36	1.93
Grain, pulse, flour	1.51	1.75	1.90	1.91
Lac	2.34	1.62	1.27	1.88
Seeds	1.79	2.01	1.84	1.78
Hides and Skins, raw	2.68	2.66	1.96	1.72
Mica	83	1.28	99	1.45
Tobacco	1	47	63	80
Hemp, raw	54	61	60	67
Cotton, raw	71	50	34	51
Cotton goods	7	38	35	49
Spices	6	27	23	33
Provisions	15	32	31	35
Paraffin wax	13	51	36	33
Oils	8	13	13	25
Boots and shoes	11	23	17	24

Get ideas of profitable occupations from "Independent Careers for the Young." Re. 1/12. Industry Book Dept., Shambazar, Calcutta.

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	1936-37	1937-38 (in lakhs of rupees)	1938-39	1939 40
Manures	13	20	14	24
Postal Articles	41	43	26	23
Leather	18	26	16	22
Dyeing and tanning substances	24	34	19	22
Instruments	8	20	18	20
Oil-cakes	27	34	19	15
Paper and pasteboard	—	9	10	13
Saltpetre	9	9	8	12
Soap	—	10	12	12
Hardware and cutlery	—	8	9	12
Paints and painters' materials	1	8	7	12
Apparel	11	13	10	10
Fruits and Vegetables	2	8	11	10
Rubber,	—	2	3	9
Cordage and rope	4	7	7	9
Bones	28	21	10	9
Kapok	6	5	7	7
Drugs and medicine	6	6	5	6
Sugar	3	35	22	3
Other articles	33	69	67	67
	<hr/> 74,90	<hr/> 86,16	<hr/> 77,97	<hr/> 111,98
Re-exports	47	92	92	1,41
	<hr/> 75,38	<hr/> 87,09	<hr/> 78,89	<hr/> 113,39

#### SURVEY OF FOREIGN TRADE IN 1940-41.

Exports of private merchandise from Bengal during 1940 41 were valued at Rs 102 77 crores as against Rs 113 39 crores in 1939-40, showing a fall by Rs 11 crores. Considering the fact that the index number of import values (86) in 1940-41 was higher than that of 1939-40 (68), the reduction in the volume of trade must be considered as much more significant. Raw jute had one of the worst years on record, exports being lowest in quantity for over sixty years. Jute manufactures however were much in demand from foreign countries. Tea had the best year since 1927-28 and accounted for 22 per cent of the total exports. There was however a phenomenal increase in the exports of cotton goods, the value of which was nearly three times that of the previous year.

Imports during the year dropped from Rs 56 12 crores in 1939-40 to Rs 52 61 crores in 1940-41. Imports from the United States rose by 91 per cent and her share stood at Rs 18 per cent the highest on record. Imports from New Zealand rose from Rs 4½ lakhs to Rs 93 lakhs, while exports increased from Rs 70 lakhs to Rs 120 lakhs.

#### COASTING TRADE.

Details of coasting imports and exports follow:—

	1937-38 (in 1,000 rupees)	1938-39	1939 40.
<b>Imports.—</b>			
From Bombay	3,85,16	4,27,00	2,88,69
„ Madras	3,62,75	3,18,81	2,67,07
„ Sind	53,25	78,88	1,07,98
„ Indian Ports (not British)	49,92	53,67	74,03
„ Orissa	713	12,97	14,18
„ Bengal Ports	32,34	11,14	12,14
<b>TOTAL</b>	<hr/> 8,90,25	<hr/> 9,02,47	<hr/> 7,64,09

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Imports:—	1937-38.	1938-39 (in 1,000 rupees)	1939-40.
To Bombay	1,83,56	1,84,39	1,32,60
„ Madras	1,97,52	1,68,61	1,12,96
„ Sind	94,11	1,04,30	99,05
„ Indian Ports (not British)	55,90	51,14	49,49
„ Orissa	9,91	9,89	7,95
To Bengal Ports	31,52	11,82	13,55
	5,72,52	5,30,15	4,15,60
TOTAL	14,62,77	14,32,62	11,79,69

**Bombay.**—The heavy decrease in imports was principally due to reduced supply of grey cotton piece-goods (Rs 187 lakhs) which fell by Rs 1 crore nearly. Imports of cotton twist and yarn (Rs 12 56 lakhs) declined by Rs 30 lakhs nearly and those of raw cotton further receded from Rs 11 69 lakhs to Rs 6 90 lakhs. Exports also received a set-back, the principal articles affected being coal (Rs 28 46 lakhs), gunny bags and cloth (Rs 27 32 lakhs) and tea (Rs 6 26 lakhs). A slight improvement was however noticed under rice (Rs 12 29 lakhs).

**Madras.**—Both imports and exports declined heavily, the chief articles of imports affected were cotton coloured printed goods (Rs 21 70 lakhs), spices (Rs 9 31 lakhs), coconut oil (Rs 7 86 lakhs) and raw cotton (Rs 5 68 lakhs). Imports of cotton twist and yarn (Rs 14 67 lakhs), new rubber (Rs 18 74 lakhs) and groundnut oil (Rs 11 17 lakhs), however improved. Under exports there was practically no demand for raw jute, manufactured tobacco, sugar, the total supply being worth a little over Rs 8 lakhs as against Rs 28 lakhs, in the previous year. Noticeable declines also occurred under iron and steel (Rs 6 58 lakhs), and paper and pasteboard (Rs 3 55 lakhs). Exports of coal (Rs 23 82 lakhs) remained fairly steady.

**Sind.**—The principal articles contributing to the increase in imports were wheat (Rs 37 45 lakhs), wheat flour (Rs 20 01 lakhs), rape seed (Rs 15 43 lakhs) and salt (Rs 15 02 lakhs). The supply of raw cotton (Rs 4 18 lakhs), however, declined appreciably. Exports fell under iron and steel (Rs 33 82 lakhs) and coal (Rs 8 37 lakhs) and there was practically no demand for sugar. Shipments of tea (Rs 2 20 lakhs), remained almost stable and those of gunny bags and cloth (Rs 33 46 lakhs) increased.

**Orissa.**—The principal imports were paddy (Rs 7 87 lakhs) and rice (Rs 6 19 lakhs), the latter contributing to the increase in imports. Exports of betelnut decreased while those of gunny bags and sugar remained steady.

**Indian Ports not British.**—The increase in imports was mainly under salt (Rs 40 54 lakhs) and pepper (Rs 16 74 lakhs). Imports of Portland cement (Rs 7 78 lakhs), however, declined. The chief exports were coal (Rs 13 66 lakhs), tea (Rs 12 73 lakhs), iron and steel (Rs 6 79 lakhs) and gunny bags (Rs 5 08 lakhs).

**Bengal Ports.**—Wood and timber (Rs 7 03 lakhs) and coal (Rs 1 72 lakhs) formed the bulk of internal trade.

Coasting trade of Bengal during 1940-41 suffered a sharp decline, due to shortage of shipping available for this purpose. In spite of this imports of Indian salt into Bengal exceeded those of foreign salt for the first time on record. Bengal is the largest producer of both parched rice and parched paddy. Altogether some 674,000 tons of rice or 8 per cent of the average crop of Bengal issued for conversion into various products. Moreover this figure represent about 50 per cent.

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of the total quantity of rice converted into parched products and beaten rice in India

### CALCUTTA.

**CALCUTTA**, the capital and chief port of the Bengal Presidency, although no more the seat of Imperial Government since 1911, is decidedly the premier city in India and is only second to London in the British Empire. According to the census of 1941 the population of Calcutta is estimated at 21 lakhs. It stands on the left bank of the Ganges, a navigable river and only 86 miles away from the Bay of Bengal. A net work of canals and rivers is responsible for centralising the products, both manufactured and raw, from the rich plains washed by the Ganges and the Brahmaputra to Calcutta. The three main railway lines, viz., E I Ry, B N R and B & A Ry, terminate here. Its position as a port maintains its importance as a great importings and exporting city.

**Industries**—Leaving apart its great jute industries, standing on both banks of the Hooghly, which are the monopoly of Bengal in the World, Calcutta has earned for herself the fame as the Industrial capital of India. Factories for the manufacture of the various goods are springing up more in the suburbs than in the city. Number of factories in 1938 in Calcutta proper was 162, giving employment to 14,636 persons. Soap business has gone ahead and soaps of the best type are being manufactured. Chemicals and acids for the industrial and medicinal uses are manufactured. Cotton mills also are getting firm hold in the neighbourhood of Calcutta.

Flour, rice and oil mills also flourish in the outskirts of Calcutta, and Chetla and Ultadangi are famous for the rice husking, etc. Silk goods are manufactured in Ultadangi. Iron and engineering workshops are scattered all over the city. Pencils, pens, nibs, coils, matches, potteries and brushes of the very best type are also being manufactured. Tanneries have also gained in strength in recent years. Toilet goods, perfumes, boot polishes, hosiery and other articles of everyday necessity are being produced. Wire netting, biscuit and barley making, confectionery and condiment preserving, nail making, galvanising etc., have for the first time in India being taken up on an industrial scale. There has been a great development recently in the manufacture of galvanised wares, steel trunks, bolts, nuts, celluloid goods, horn articles, tin boxes, serums and vaccines, bricks and tile making, enamelled and porcelain wares, glassware, crown cork, cookers, etc. Manufacture of electric bulbs, rubber shoes, glass apparatus, sporting goods, cycle, etc., is also a new development in the Province. Quite a large number of saw mills and plywood factories are also now in operation. Other important industries carried on within the municipal limits on a commercial basis are manufacture of type foundry and casting of metals, manufacture of fireworks, cardboard boxes and envelopes, brass and copperware, umbrella sticks and polo sticks, sugar candy, hats, book-binding, tailoring, embroidery, laundry work and dyeing and cleaning, leather goods, repair of motor cars and carriages, watches and clocks etc., printing of cloths and cloth borders, manufacture of specially treated fabrics, tracing cloth and waterproof cloth, tobacco pressing and packing and biri manufacture, and manufacturing of ivory and conch-shell articles, weaving of gold threads, manufacture of candles, ink, wigs and theatrical requisites, musical instruments, radio accessories, etc.

**Trade**—The chief trade of Calcutta centres round jute, tea, rice and pulses, cotton goods, hides and skins, manganese ores, pig iron, coal, etc. Jute trade is the distinctive feature of Calcutta. Calcutta is

**COMPLETE TAILORING**—A guide to cutting and tailoring of Gents', Ladies' and Children's garments, Rs. 3/8. Industry Book Dept., Calcutta.

the great jute centre of the world and the foreign countries interested in jute make their purchases here. Country boats and river steamers bring down the raw jute from the fields of Eastern Bengal and unload the products here. The total presses and mills, some 150 in number, standing on either side of the Ganges are also extensive purchasers. They press the jute and manufacture jute cloths and bags, which find ready sale in the world's marts. Prosperity of Bengal in fact depends upon the price at which jute sells in the market.

Calcutta is a great distributing centre of imported goods to Bihar, the United Provinces, Orissa and the Central Provinces. There is considerable trade in hardware, culture machineries, engineering stores, building materials, leather articles, rubber goods, paper and pasteboards, stationery articles, etc. Articles manufactured in and around Calcutta also figure prominently in Calcutta's trade.

The tea trade is growing to greater and greater importance. Large quantities of tea are brought to the Calcutta markets from Darang, Lakhimpur, Sylhet, Darjeeling, etc., for distribution and shipment. The chief market is United Kingdom which absorbs about 35 per cent. of the whole exports. Of the other countries, the important are N. America, Asiatic Turkey, Australia, etc. Chittagong stands as a competitor of Calcutta so far as tea is concerned.

Calcutta consumes on an average over 500 maunds of fish daily, and the supply is inadequate. The supply of fish comes mainly via the B N, the E I and the B & A Railways to Howrah, Sealdah and Patipukur stations while small supplies come from such places as Basirhat, Diamond Harbour, Baruipur, the salt lake areas by lorries, motor boats and coolies. To Howrah station come daily about 150, maunds of fish including 100 maunds of sea fish from Puri, Chilka, etc., and Sealdah receives more than 200 maunds daily.

Calcutta is the pivot of the rice trade in Bengal. It is not only the exporting centre of Bengal (which even now annually exports 100,000 tons of rice) but also the chief consuming and distributing centre. Of 300 odd rice mills in Bengal, Calcutta alone has over 150 mills. More than 10,000,000 mds of paddy are required annually to keep these mills going.

**Imports and Exports.**—Major portions of the imports and exports in Bengal pass through Calcutta. During 1939-40 Calcutta handled 92 per cent. of the imports, i.e., Rs. 51.27 crores and 98 per cent. of the exports, i.e., Rs. 105.49 crores.

The following table gives the figures of foreign and coasting trade during the five years ending 1939-40—

Foreign Trade:	1935-36	1936-37	1937-38	1938-39	1939-40
Imports	38.65	36.91	51.92	50.38	52.64
Exports	61.66	70.19	80.97	72.46	1,06.02
Coasting Trade:					
Imports	14.31	15.99	8.53	8.88	7.42
Exports	9.84	11.49	5.54	5.33	4.23

#### BACKERGANJ DISTRICT.

The district covers an area of 3,649 sq miles and has a population of 36,31,023 of which 1,504,020 are males and 1,431,096 are females.

The district is famous for balaam rice and betelnuts which grow in abundance here. Balaam rice is exported to Calcutta and other parts of the province. Coconuts and pulses mainly masur grow plentifully. Oysters are found in this district, which are also exported.

Cutlery, ramdaos, razors, nut-crackers, scissors and saws for cutting conch shells are made at BARAPAIKA and UZIRPUR. Brass and white metal nibs are also made at PATUAKHALI.

**COMPLETE TAILORING**—A guide to cutting and tailoring of Gents', Ladies' and Children's garments. Rs. 3/8. Industry Book Dept., Calcutta.

Sitalpati mats of fine quality are also made in the district. A rough kind of mat is made from "hogla," which is a char reed, and used by the poor as bedding. Hogla matting is a special product, of the Backerganj district and is made throughout the district, especially at JHALAKATI. It is exported to Calcutta and other places. It is also used in the making of bags for exporting dried fish.

Fine specimens of earthen ware with shining black and red polish, are made at UZIRPUR. Buttons, combs and bangles are also made from buffalo horns and are widely sold throughout Bengal. The chief centres of the horn work industry, are BARISAL, BHOLA, AMTALI, PATUAKHALI and GALACHIPA. Coconut oil is manufactured at BHOLA, AMANI and NALCHITI and there are oil mills at JHALAKATI, NALCHITI and BHOLA.

The chief centres of weaving are GABKHAN, KIRTIPASHA, UZIRPUR, JHALAKATI, NYIAMATI, SIDDAKATI, NALCHITI, BANORIPARA, BAISARI and MADHABPASHA.

BARISAL (population 35,716) the chief station of the district, is a great rice mart while PIROJPUR (population 10,959) is the second town of the district. Masuri pulse of this place is famous.

Other trade marts are JHALAKATI (population 6,496), NALCHITI (population 1,946), BHOLA (population 5,558), PATUAKHALI (population 6,434), DAULATKHAN and SAHEBGANJ. Transport of goods is carried on in boats as well as by steamers and railways.

Fairs—Big fairs attended by thousands of people are held at Kalsuri, Kalaskati and Lakshmana near Backerganj, where cattle, goats, buffaloes and various agricultural products are exhibited and sold. Another is held at Sugandha in Barisal during Shivaratri and Pujah.

#### BANKURA DISTRICT.

The district has an area of 2,625 sq miles and is peopled by 1,256,125.

During 1941-42, area under rice was 587,400 acres, maize 2,767, acres, sugarcane 3,575 acres, wheat 5,290 acres, til 4,600 acres, pulses 15,840 acres.

Industrial products of Bankura include silk cloth, bell metal wares, embroidered silk saris, silk and tassar cloths, gold and silver ornaments, shell and lac bangles, iron implements and cutlery. There are several oil mills and rice mills. Coal is mined.

SHASPUR cutlery in Indas Thana pursued as a cottage industry has already earned a local popularity.

BANKURA—Brass and bell metal wares are made. Silk weaving is also practised. Mixed cloth of tassar is woven at Bankura. Coarse cotton cloth and cheap woollen blankets are also woven there. Bankura is also famous for its chaddars.

VISHNUPUR—The principal articles of trade are paddy, rice and molasses. The industries pursued are silk weaving, cotton weaving, bellmetal industry, conch shell industry and bead making.

The natural resources in Vishnupur Circle comprise the forests which supply fuel and timber. The chief crops are paddy and sugarcane. The exports are paddy and molasses and imports consist of pulses, spices, salt, clothes, stationeries, kerosine, coal etc.

SONAMUKHI—The industries pursued are (1) silk weaving (handloom) and (2) brass and bellmetal industry. Both are in a decayed state the former owing to importation of cheap Japanese, Javanese, American and British silk fabrics of equally good and even better standard, the latter owing to increasing use of aluminium and enamel.

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led steel utensils by local residents. Sonamukhi had formerly a flourishing trade in lac.

**PATRASAYER**—The industries pursued are (1) handloom cloth (2) brass and bellmetal industry and (3) conch shell bangles. The first has lost ground in favour of mill woven cloth, the second is yielding place to aluminium and enamelled utensils and the third cannot stand the ground against fold silver and glass bangles.

Logs of Sal and other forest wood are exported to Howrah and other places for firewood and other purposes from both SONAMUKHI and PATRASAYER.

Important centres of trade are . BANKURA (population 46,617), BISHNUPUR (population 24,961), and SONAMUKHI (population 14,667).

**Fairs**—There were three agricultural, industrial and health exhibitions in the district, viz, (1) Sonamukhi in the Vishnupur sub-division from 8th to 13th February, 1942, (2) at Onda in the Sadar Sub-division from 16th to 21st February 1942, (3) at Gogra in the Sadar Sub-division from 24th to 28th February 1942.

#### BIRBHOOM DISTRICT.

The district covers an area of 1,759 sq miles and has a population of 947,532 of which 472,682 are males and 474,850 females.

There are two stone quarries at Nalhati and Rajgan-Gopalpur. Collieries exist in PARSUNDI, SAGARBHANGA, HAJRATPUR. Fire-clay is obtained from a mine at BHADULIA.

The cottage industries include brass and bell metal work (at DUBRAJPUR and NALHATI), cutlery, silk and mulberry silk weaving. Silk weaving is practised at ROSWA, BISHNUPUR, MARGRAM, PANCHGACHIA, BALIA, PALSA and at other places in the RAMPURHAT sub-division. Tassar weaving of KALIPUR-KARIDHA is important. Coarse cotton cloth is woven at ALUNDA and the Sadar sub-division is well-known for its table cloths, bed sheets and screen cloths. Shell ornaments are made at KARIDHA. Lac work and lacquered toys of ILLAMBAZAR are well known; boots and shoes are made in TANTIPARA and SURUL.

There are 52 rice mills in the district e.g., at SAINTHIA, DUBRAJPUR, AHMEDPUR, BOLPUR, KIRNAHAR. Rice is exported on a large scale from rice mills at Rampurhat, Mollarpur, Nalhati and Muaroi.

DUBRAJPUR (population 10,000) is famous for its industry in bell-metal goods and cutlery. There are rice mills, oil mills and flour mills. Country sugar is manufactured at village Kankhutia near Dubrajpur. Annually about 2,00,000 mds of paddy and 1,00,000 mds of rice are imported to Dubrajpur Bazar for sale.

BOLPUR is a growing place with 19 rice mills and a big bi-weekly hat held on Sunday and Thursday. The Viswa-Bharati Institution established by the great poet Rabindra Nath Tagore is situated at Santiniketan near Bolpur. Sriniketan under the Viswa-Bharati is an institution for cottage industries, agriculture and dairy farming. The cottage industries are weaving, pottery, carpentry, shoe-making, etc.

SURI (population 10,908) is the head quarter station of the district, the local trade consisting of rice, grains, and pulses, atta, kerosene oil, and the jungle products. The morabba of SURI is famous.

**RAMPURHAT SUB-DIVISION**—There is one hat at SATPALSA in Moureswar PS. A very large quantity of vegetables is exported from this hat to distant places. It is the cheapest vegetable selling hat in this sub-division and is held every Tuesday. A small cattle hat is held every Tuesday in the outskirts of RAMPURHAT TOWN. There is an

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important market at LOHAPUR in Nalhati P S Rice is exported from there every year in large quantities Fowls are exported from CHATRA market in Muraroi P S every Wednesday

Other minor trade centres of the district are LABPUR, RAMPURHAT, KIRNAHAR, BELLIADANGA, NALHATI, etc, where rice is the chief article of export and piecegoods, salt, oils, potatoes and gur, the chief imports

**Fairs**—The Kenduli mela, where the great poet Joydeva of Gita Govinda fame was born, is held during January every year. Other important fairs are —Akaliapur, Nalhati, Troiyo-doshi Mela, 13th day of moon of Aswin, 7 days, Kenduli, Beerbhum, January, (Religious) In MURAROI, Muraroi Bazar, Syam Sundar Mela, Magh, Jajgram, Kalipuja Mela, Kartik, Chatra, Gonesh Janani Mela, Falgoon, Mitrapur, Sham Chand Mela, Magh In MOURESWAR, Moolarpui, Shiva-Choturdoshi Mela, Falgoon; Muralidangal, Gosthastami Mela, 1st Magh, Birchandrappur, Gosthastami Mela, Kartik, Aiadhana Mela, Maghi Purnima, Rathajatra Mela, Ashar, Mohurapur, Choitra Sankranti Mela, Chaitra, Kaleswar, Shiva Chaturdoshi Mela Falgun, Ghatkuri, Dharmojoy Mela, Boisaki Purnima, Dheka, Brahmadoity Mela, 1st Magh Ulkunda, Fakirkhana Mela, 2nd Magh In RAMPURHAT Bhunkeshwari, Bhunkeshwari Mela, 1st Magh, Udoypur, Kalipuja Mela, Chaitra, Gopalpur, end of Magh, Chandra, Choitra, Margram, 11th Poush, Tarapur, Chaturdashi Mela, Aswin and Kartik, Sandhyajole, Falgun, Mahapara, Agrahayan, Gorla, 5th Baisak, Sowasa, Falgun. In DUBRAJPUR—Mangaldihi, Hetampur—Sahapur Khoyrasole, Ranipahar, Parsundi and Barhra Patharchapri Mela (Religious) A large number of people attend the mela in the month of Chaitra during annual anniversary of late Data Mahbub Shah It is 6 miles off from the Suri town All sorts of articles of agriculture are brought for sale here

#### BOGRA DISTRICT.

The district covers an area of 1476 69 sq miles and has a population of 1,121,098 of which 574,900 are males and 546,198 females

Cotton and silk weaving from the only cottage industry of the district, the important centres of manufacture being SONALI, DASHTIKA, RAMNIGRAM, LAKHMIKOLE, MOHONPUR and SANTIGAON There are several factories which manufacture tassar and garad cloths of very good quality, raw silk being imported from Rajshahi and Murshidabad Among other industries may be mentioned gur, mats, clay pots, cabinetware, hand fan, etc, etc

A promising handloom industry for manufacturing jute bags, mats, cushions and durries is being run at ADAMDIGHI and at SUKHANPUKUR in this district

Jute, paddy, sugarcane, patal and potato are the chief agricultural products and exported in large quantities to other places The chief articles of trade are mustard, seed, rice, sona mung, arhar, mosuri, etc.

PANCHBIBI, JAMALGANJ and AKKELPUR are big centres where "Patal" is grown and exported in large quantities Potato is grown and exported in large quantities in villages, FULBARI, RAJAPUR and SAKARIA and betel leaf (pan) in GOKUL SHIBGANJ and BEHAR. Chillies are grown largely in GABTALI P S

The biggest 'mela' in the district is held at GOPINATHPUR annually during the Dol Purnima festival and lasts for about a month Cattle is largely sold in this fair besides other articles The 'PUNOT' mela in police station Khelal is held for 15 days in Magh or Falgoon and cattle is also sold here

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**Fairs:**—Principal cattle markets of the districts are Noongola, Baroduari, Mokamtola, Kahaloo, Gossainbari, Tarnihat, Chandanbaisa, Fulbari, Hatsherpur, Dhap, Rukindipur, Panchbibi, Santahar, Kalitalahat, Naruamala

Other fairs are —Mahasthan, P. S. Shibganj, last week of March, 8 days, Cow, Goat, Horse, Camel etc., Gangnagar P S Shibganj, 1st week of April, 8 days, Pakulla, P S Shariakandi Middle, of December 1 month, Balua, P S Shariakandi, 2nd week of January, 1 month, Boga, P S Shariakandi, Middle of February, 1 month

Goods from the interior are brought by carts, and during the rains, by boats External trade is carried on generally by rail

### BURDWAN DISTRICT.

The district (2,697 sq miles) has a population of 1,575,699 The chief crop of the district is rice Grains and pulses and also oil seeds are grown The district contains rich deposits of coal

The cottage industries of the district are brass and bell-metal works of BONPAS, DAINHAT, PURBASTHALI, KALNA and MATIARI where large vessels and cooking utensils are made, KANCHANNAGAR is famous for its cutlery, the pottery industry thrives in the villages on the banks of the Bhagirathi, the clay of which is highly suitable, the belluti clay found near KALNA is used for glazing. BONPAS is famous for gold, silver and gilt ornaments, gun-metal and brass plates. There is a factory at BANSA for preparing tannin from myrobalan

Cloth is woven in the RANEEGANJ side of the district and also in the KALNA sub-division Silk weaving and mulberry rearing are carried on at MEMARI and RADHAKANTAPUR Tassar weaving is one of the chief industries of this district, specially round MANKAR. There are 52 rice mills in the district

Bengal Iron Co, have their factory at KULTI (population 11,574), while the Indian Iron and Steel Co, is situated at HIRAPUR now called BURNPUR (population 5,740), about 3 miles off Asansol. SAMDI has a big iron works

BURDWAN (population 39,613)—There are a number of rice mills and oil mills in the town There are many arathdars who are big merchants and dispose of imports from outside the district and province

RANEEGANJ (population 16,377), is 121 miles from Calcutta, well-known for its vast coal field The raisings of coal in the coal fields of Raneeganj are estimated at 7.6 million tons which is 30 p.c of the total output of India The major portion of the production of coal is exported to Calcutta by the E I Ry. Other raw produces such as paddy and sal prop are also exported from here. Raneeganj is a big market place for agricultural products such as rice, paddy and seeds

Coal tubs are mainly manufactured by the Raneeganj Motor and Engineering Works and paper is manufactured by the Bengal Paper Mills Ltd. There are several oil mills and rice mills, consuming local products In its vicinity are the famous pottery work of Burn & Co, the products being in demand in and outside Bengal The brass and bell-metal wares are also famous Oil and oil-cakes are also imported here in large quantities

ASANSOL (population 31,286) is one of the chief centres of coal industry It is a growing centre of trade There are about a dozen boot and shoe-making factories at Asansol preparing high class boots and shoes by hand

KALNA (population 9,567)—There are many rice mills in this town Grain trade is brisk from Falgun to Baisakh.

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KATWA (population, 7,772)—There are two or three rice mills here Grains and seeds are obtainable

The hats of BALAGARH and SOMRA are important markets

Fairs.—Important fairs are held at —Kalichar, P S Mongolkote, Cattle every sunday, Nutanbat, P S Mongolkote, Cattle, every Monday, Pachandi, P S Ketugram, Cattle, every Thursday, Dadhia, P S Ketugram, Industrial and miscellaneous, 3 days from the day of Makar Saptami, Udhanpur, P S Ketugram, 3 days from the day of Poush Sankranti

### CHITTAGONG DISTRICT.

The district covers an area of 2,570 sq miles and has a population of 1,797,038 of which 872,888 are males and 924,150 are females

Existence of oil is proved by the Seepage that is found in many parts of the Sitakund range Coal in very small quantities is also to be found in this range not far from Sitakund

Chittagong produces very good water-melons, pine-apples, liches, guava, pomelo and limes Plantains thrive and many excellent varieties are grown The chief produce of the district includes rice, tobacco, chilli, betel leaf, sugarcane, sunn hemp, tea etc, etc Tea is grown over 6,254 acres in 21 plantations, 2,058,797 lbs of black tea was produced during 1939

The district of Chittagong contains three ports, viz, CHITTAGONG (population 53,156), COX'S BAZAR (population 5,018) and NILLA COX'S BAZAR carries on coasting trade with customs ports while NILLA is merely a port for the shipment of rice The sea-borne trade of the district is thus confined to Chittagong on the Karnaful river This port (pop 36,000) is now a major port

Foreign Trade of Chittagong—The following statement shows the value of the sea-borne trade of the Port of Chittagong for 1939 40 and previous years.—

	1936-37	1937-38	1938-39	1939-40
<b>Imports</b>			(in 1,000 rupees)	
Grain, pulse and flour	—	66,27	1,04,97	2,71,99
Oils	1,40	39,10	47,69	50,53
Machinery and Mill-work	24,76	33,76	56,19	36,35
Tea chests	10,12	10,89	18,29	10,74
Metals and ores	28,17	23,40	22,19	10,49
Salt	11,09	11,81	3,98	9,42
Wood and Timber	2	5,83	4,73	5,98
Manures	2,56	5,71	5,54	4,29
Spices	2,27	3,26	4,60	2,94
Chemicals	2,79	2,81	2,27	2,56
Hardware	1,54	2,56	3,04	2,19
Candles	—	2,28	1,93	1,96
Railway Carriages and Wagons	2,77	3,76	5,36	1,78
Tobacco	—	1,88	1,05	1,40
Cotton goods	1,39	2,10	1,36	1,32
	99,83	2,23,17	3,00,94	4,50,44
<b>Exports.</b>				
Tea	4,54,60	5,71,53	5,63,17	5,86,36
Jute, raw	63,04	71,32	64,77	1,29,85
Paraffin wax	9,15	34,14	23,34	23,71
Tobacco	—	9,68	9,79	9,53
Cotton, raw	15,91	13,26	11,84	8,72
Spices	—	3,84	1,92	6,31
Seeds	—	3,81	3,71	2,82

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	1936-37	1937-38	1938-39	1939-40
Oils	12	1,74	2,29	2,25
Provisions	—	3,67	2,24	2,19
Mats and mattings	—	2,40	2,08	1,73
Fish	6	1,50	1,40	1,44
Cotton Goods	1	1,61	1,88	1,21
Re-exports	39	3,13	4,13	2,84
	<u>5,43,79</u>	<u>7,34,18</u>	<u>7,02,56</u>	<u>7,90,03</u>

The United Kingdom and Burma were responsible for 64 and 31 per cent of the total trade respectively. Machinery, tea chests, iron and steel, manures and chemicals from the United Kingdom and rice, kerosene and wood and timber from Burma constituted the bulk of imports. Tea, raw jute, paraffin wax, raw cotton to the United Kingdom and tobacco, spices, seeds, oils and provisions to Burma formed the bulk of exports. Imports of salt from Aden greatly increased but those of betelnuts from the Straits Settlements declined, shipments of raw jute to France and of raw cotton to the United States and St. Domingo were also noteworthy.

**Coasting Trade.**—Coasting trade was shared mainly between Madras (Rs 9 66 lakhs) and Okha (Rs 7 73 lakhs, mostly cement) excluding the internal trade (Rs 5 67 lakhs). Figures for the four years ending 1939-40 follow

	1936-37	1937-38	1938-39	1939-40
		(in 1,000 rupees)		
Imports	1,85,27	41,98	21,84	22,90
Exports	84,12	32,10	9,72	3,31
	<u>2,69,39</u>	<u>74,08</u>	<u>31,56</u>	<u>26,21</u>

Cotton weaving is carried on to a considerable extent. The chief centres are SATBARIA, GASBERIA, DOLGHAT, PATIYA, KATA-KHALI, NOAPARA, MADARSHA, FATEYABAD, HATHAZARI, MAHMUDBAZAR, DHEMSHA, SATKANIA, MIRSHARAI, TETAIYA, JANARDANPUR, BAMANTALA, MAHAJANHAT, RANGUNIA, COX'S BAZAR, RAMU, CHAKARIA, CHANDRACHONA, ZORWARGUNJ and RANGAMATI. Centres of silk weaving are at COX'S BAZAR, RAMU, MAHISHKHALI, CHAKARIA and RANGAMATI. Silk lungis are made on a large scale. Among the minor industries may be mentioned jute pressing, brazier's work, iron smithy, carpentry, jute and hemp cords making, fishing net making, etc. Cottage industries include bamboo-ware, mats, sola garlands, copperware, hand paper making, satfood, clay cooking vessels, etc. Boats of different sizes are constructed in Chittagong. Ship-building is an ancient industry of the district and there are carpenters expert in ship-building at GOASHAIL-DANGA. There are pearl fisheries at Cox's Bazar.

A cotton mill has been started in Chittagong. Salt is manufactured. There are 4 cotton ginning and pressing factories and 1 match factory in Chittagong.

Raw materials for paper pulp, such as Ekra grass, bamboos and reeds, etc., are available in large quantities. Bamboo handles for umbrellas are available.

**Fairs:**—1, Chittagong Agricultural Industrial and Health Exhibition at Chittagong town, held in the month of March. 2. Cox's Bazar Agricultural, Industrial and Health Exhibition at Cox's Bazar town, held in the month of February.

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**CHITTAGONG HILL TRACTS.**

The area of the district is 5,413 square miles. Languages spoken are Chakma, Mughl or Arakanese, Tripura, Lushai, Khumi, and Bengali. Headquarters of the district is at Rangamati.

The District contains only a number of tea gardens, area covered being 157 acres with a total production of 45,227 lbs of black tea in 1939.

Practically speaking there is no industry in the whole of the district. Only manufacture of blankets, bamboo baskets and wooden pots is carried on cottage industry line. Major portion of the district is covered by forests abounding in teak, deodar and bamboos for umbrella handles. Cotton is also grown in some places.

**DACCA DISTRICT.**

The area covered by the district is 2,713 sq miles, the population being 3,423,577 of which 1,743,517 are males and 1,689,060 females.

The chief crops are rice, jute, pulses, mustard and other oil seeds, til, betel leaves, plantains (those of MUNSHIGANJ are famous) and sugarcane. In 1941, 142,280 acres were under jute. Cultivation is being gradually extended to the Madhupur jungle situated on the border of the district.

Cloth weaving is the biggest industry in the district. Of late four cotton mills have been started. DACCA, TARABO, SIDDIGANJ, NAWAPARA, KACHPUR, ABDULLAPUR, DHAMRAI are centres of hand-loom industries. Kasida cloth is made at SHANORA, BILLISWAR, MATIMAL, DAGAR, etc., Cap embroidery of local Mussalmans is famous. Dacca is the principal centre for making bangles and buttons. AMLIGOLA and NABABGANJ are famous for horn carving. Mother-of-pearl buttons is an important cottage industry of the district, the chief place of business being NANGALBAND. The principal villages where shell buttons are manufactured are situated within a short distance from each other in the Narayanganj subdivision. Bell-metal wares for domestic use are made at BRAHMANGAON, DHANKUNIA, LOHAJANG, FIRINGIBAZAR, ABDULLAPUR, SHOLAGHUR and DHAMRAI. Boat building is a lucrative occupation in the district and boat-makers are to be found in almost every village. About 8,000 people are engaged in the pottery industry.

The export and import trade of the district pass through NARAYANGANJ. The chief imports are piece-goods, salt, kerosene oil, wines, shoes, umbrellas from Calcutta, lime and coal from Assam, timber from Chittagong and Assam, rice is imported in large quantities from Backerganj. The chief exports are jute (about 4 lakhs of tons, of which 2/5ths come from Mymensingh, 1/4th from Tipperah, 1/5th from Dacca), hides, pulses, betel leaves, oil-seeds, pottery.

DACCA (population 138,518)—It is the second city in Bengal, and is the seat of a University. It is a thriving industrial town. Shell bangles and gold and silver jewellery of Dacca are famous. House boats are made by local carpenters. Toilet soaps and washing soaps are manufactured. Horn and mother of pearl buttons, steel boxes and trunks, brass and bell metal articles are made. Matches are manufactured here.

NARAYANGANJ (population 34,149)—Is the centre of jute trade in Eastern Bengal. It imports lime, honey and oranges from Sylhet, timber from Rangpur, tobacco from Purneah district, cotton comes here from Comilla, Chittagong and Hill Tipperah, hides and skins come from Mymensingh, kerosene oil, teak wood, ivory, black pepper, oil-cakes, etc., come from the interior villages, these things being also

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brought from Bihar Rice comes from Backerganj and articles of foreign manufacture come from Calcutta direct, country-made sugar is brought from Bihar and Jessore. Goods are carried by rail and steamers and sometimes by boat. Other marts are JAGIRHAT, BAIDYAR-BAZAR, NARSINGDI, MIRKADIM, LOHAJANG.

Fairs:—Religious assemblies are held at Dhamrai, Nangalband (during March) near Sonargaon and at Lohajang

### DARJEELING DISTRICT.

The area of the district is 1 274 sq miles and the population 319,979. Languages spoken are Nepali, Bhutia, Lepcha, Bengali and Hindi The district is situated at an elevation of 7,500 ft

The district contains a good number of tea gardens Cinchona is also cultivated here The forest products include tun and sal. Chiretta, madder and aconite are collected by local people. The mineral products are coal, iron, copper, etc, which are but very little worked

Tea is grown over about 52,541 acres of land and has a good flavour There are 137 tea plantations in the district Black tea produced in 1939 was 22 1 million lbs and green tea 1 3 millions lbs

Coarse woollen stockings and comforters, satianjus, saris are woven Saris, chaddars and alwans are made at SILIGURI There are breweries at SONADA Manufacture of blankets, kukris, bamboo-baskets and wooden pots is carried on cottage industry lines Demand for these articles is local.

The chief exports to Calcutta are tea, jute and gunny bags and the imports are piecegoods, kerosene oil and salt Rice comes from Dinajpur and coal and coke from Burdwan

Imports from Nepal are food grains, piecegoods, manufactured wool, hides, sheep, goats, cattle and poultry and exports to that place are European goods, cotton twist, salt, kerosene oil, tobacco and food grains The same is the nature of trade with Sikkim Bhutan trade passes through Jalpaiguri district.

DARJEELING (population 19,903)—It is the summer seat of the Bengal Government KALIMPONG (population 8,776) is an important centre of wool and carpet weaving and lac making Other important towns are KURSEONG (population 7,451) and SILIGURI (population 6,667)

Fair:—One Agricultural and Industrial fair was held in January 1942 at Bijanbari

### DINAJPUR DISTRICT.

The area comprised in the district is 3,946 sq miles with a population of 1,755,019 of which 923,800 are males and 831,218 females.

The chief crop in the district is rice which is cultivated almost everywhere In fact rice is under cultivation on about 1 million of acres Dinajpur is also famous for jute (69,420 acres in 1941). Sugar-cane is being grown on an increasingly large scale in the district

There are several establishments for weaving jute mattresses as a home industry Silk endi is manufactured on a small scale in villages KHALAKHALI, RUHIA and BARSHALUPARA Raw endi is available in small quantity There are 39 factories in the district

Cotton weaving is also carried on in many places, the main centres of production being DEBIRBAZAR, JAUNIA, SHABAZPUR, CHIRIR-BANDAR, RANISANKALI, KHANSHAMA, KESARBARI, RANIRBANDAR, CHURAMON and BHOROTE Mosquito curtain cloth is manufactured at ITAHAR.

"Dental Preparations"—An invaluable guide to manufacturers of tooth powders, pastes, mouth-washes, etc. Re. 1/12, Industry Book Dept., Cal.

LAHIRIHAT, BOCHAGANJ, GORIA, KHANSAMA, RAIGANJ DHANKOL and PATIRAJ are centres of trade

Good chura is available here Mats are woven here with a variety of sticks of a certain kind of grass Fine specimens of pottery are also made Gur is made at BIRGANJ and PIRGANJ. There is one sugar mill at SETABGANJ

Tanning is an important industry, tanned hides being sent to Calcutta Cartwheels are made from timber brought from Siliguri and Duars Axes, iron cart bands, ploughs and iron utensils are made at PATNITOLA, KOTALI, PORSHA and RAIGANJ

**Fairs**—Famous melas are held at Nekmurd and Alewakhowa where live-stock and agricultural implements are brought for sale Others include Nekmurd, P S Ranishankoil, 13th April, 15 days, Allowakhwa, P S Alawari, 31st October, 15 days, Kantanagar, P S Kaharol, 31st October, 15 days, Haripur, P S Haripur, 1st March, 15 days, Sibganj, P S Thakurgaon, 15th March, 14 days, Dhemdheml, P S Birganj, 18th October, 15 days, Patiram, P O Balurghat, 26th January, 15 days, Dhaldighi, P S Gangarampur, 8th February, 22 days; Chintamon, P S Phulbari, 25th April, 1 month, Kukramoni, P S Kaliaganj, 14th April, one month, Bindole, P S Raiganj, 1st November, 15 days, Kadihat, P S Ranishankoil, 3rd October, 14 days; Ghoraghat Jalalpur, P S Ghoraghat, 15th January, one month, Lahridighi, P S Bahadangi, 3rd October, 15 days, Jinpir, P S Birganj, 3rd December 7 days, Kallakamura, P S Kushmundi, 15th March, one month, Phulpur, P O Churirbandar, 14th April, 7 days, Jayganj, P S Khansama, 15th March, 15 days, Hili, middle of January one month

#### FARIDPUR DISTRICT.

The district comprises an area of 2,347 sq miles and is peopled by 2,362,315 of whom 1,206,348 are males and 1,155,867 females

Faridpur is eminently a rice-growing tract Jute is also cultivated in the district, 128,040 acres being under the crop during 1941 Other agricultural crops include grains and pulses, rape and mustard, condiments and fruits and vegetables Cultivation of sugar-cane, tobacco and groundnut is making headway

Bell metal and copper utensils are not manufactured at all in this district Brass utensils are however made from imported brass sheets at and near PALONG the chief centre being NARIA, BILASHKAN, DASARATA, KATALBARI and BAGHIA Boat-loads of clay toys and earthenwares are taken to Backerganj during the paddy harvesting season and bartered for paddy

Sitalpati mats of fine quality are also made from motia grass Checks, chintz and better class dhuties and saries are made at RAJBARI The weavers of DEORA produce excellent cloths, especially saries which are sold in large quantities at the nearest markets Iron implements are made all over the district Gur is made at PANGSA and RAJBARI

GOALUNDO is the chief market in this district and is situated on the junction of the Padma and the Jamuna, about 155 miles away from Calcutta It is the terminus of the railway on this line It is a mart through which enormous trade passes Other centres of trade in the district are FARIDPUR (population 15,516), PANGSA BELGACHI, RAJBARI (population 7,104), PATURIA and KHAN KHANAPUR, MADARIPUR is a centre of jute trade The chief articles of trade are fishes (Hilsa of this place is famous), water-melon (also famous).

For full process of manufacture of phenyle, read DISINFECTANTS & ANTISEPTICS, Re. 1/12. Industry Book Dept., Calcutta.

**HOOGHLY DISTRICT**

The HOOGHLY district (4,232 sq miles) runs along the western bank of the river Hooghly. The E. I R line runs through it. The population is 13,74,919.

Potato, vegetables, plantain and pulses grow abundantly in the district. Palms are plentiful.

Cottage industries of this district comprises carpentry at CHANDERNAGORE, for Calcutta markets, brass and bell metal work at BALLY, MAHESH, SERAMPORE, BANSBERIA and KAMARPARA. Uranis and pagrees are made and exported to U P and the Punjab. Tassar-weaving is practised in cottages at HARIPAL, KAIKALA, RAJBALHAT and BEGUMPUR, SERAMPORE and FARASDANGA are important centres of cotton weaving. Paper making is practised (hand made) at MOHUAD, GOSSAINMALPARA, NEALA, BALLIDEWANGANJ by "Kagazis" (Mahomedans) but the industry is on the wane. "Chicken Works" industry is found within the area under HARIPAL and TARAKESWAR thanas. The industry for manufacturing burnt bricks and thatching tiles are also found in fairly flourishing conditions in areas under UTTARPARA and eastern portion of CHANDITOLA thanas. This industry is also found within BALARAMBATI UNION of SINGUR thana. Cotton tape is made within NABABPUR-KUMIRMORA Union, Rope at CHATRA and KUMIRMORA, horngoods at MAKHLA, palm-leaf hand fans at SINGUR and gold-polishing work at KRISHNORAMPUR.

There are 60 factories in the district giving employment to 59,318 persons. Of them 29 are rice mills, 16 jute mills and 6 cotton mills.

MAGRA—The chief articles of trade here are rice and paddy, potatoes, oil-cakes, jute, kalai, etc. A good sand business with Calcutta is carried on, as also business in castor-cakes which are stocked in Ashar and sold away in Bhadra when the potato season sets in.

CHAMPADANGA—This is a big market and remarkable for paddy, rice, jute, potatoes, oil cakes and vegetables produces. The market is held twice a week on Wednesday and Saturday.

SERAMPORE (population 39,056)—There are several cotton weaving and spinning mills, where dhuties and saris are manufactured and are extensively used all over Bengal. The most important of them are the Bengal Luxmi Cotton Mills, Rampooria Cotton Mills and Bangeswari Cotton Mills. A few other cotton mills are also under construction. There are paper works in the locality. Business also centres round betel-leaf.

SHEORAFULLY (Baidyabati) has a very flourishing hat, held twice a week on Saturdays and Tuesdays.

BAIDYABATI (population 18,486)—It is one of the biggest marts in Bengal. Potatoes in large quantities are sold there wholesale. Bananas, pumpkins and other vegetables also come to the hat in huge quantities. Plantains of this place are sent to different parts of Northern India, this mart is the chief source of vegetables supply for Calcutta. Castor cakes are sold here in considerable quantities.

CHANDERNAGORE (French Settlement) Cotton cloths manufactured locally are much appreciated for nicety and durability and are known throughout Bengal as Farasdanga dhuties and saris. This place is also noted for the manufacture of unpolished chairs which are sent down to Calcutta daily. Business in plantain and coconut goes on extensively throughout the year.

Other industrial and commercial towns are: BANSBERIA (population 14,221), RISHRA-KONNAGAR (population 26,363), CHAMP.

For full process of manufacture of phenyle, read **DISINFECTANTS & ANTISEPTICS**, Re. 1/12, Industry Book Dept., Calcutta.

DANI (population 25,363), UTTARPARA (population 9,350), KOTRUNG (population 7,160), BHADRESHAR (population 22,992), CHINSURAH (population 32,534) and TARAKESWAR

**Fairs:**—Important fairs in the district are —Serampore, Khetra Saha's Industrial Exhibition, March 1 month, Mahesh, Rathajatra, July, Tarakeshwar, Sivratri, March and Chaitra Sankranti Mela, April 2 days, Dihiberaria, Arambagh, Ranjit Ray's Dighi Mela, on Baruni days, Khanakul, Chanteswari Mela, Rangtakhal, Arambagh, Rash Mela, Agrahayan 5 days, Bali, Goghat, Rash Mela, Agrahayan, 5 days, Krishnanagore, Khanakul, Rash Mela, Agrahayan, 5 days, Arambagh, Olaiubi Mela, Chaitra, 3 days, Basudebpur, Arambagh, Rash Mela Agrahayan, 5 days, Dhulepur, Goghat, Kalasona Mela, Pous Sankranti day and following 2 days, Jarur, Khanakul, Bagabati Mela, 1st Baisakh, Batanal Arambagh, Hooghly, Rath Mela, July, Nandanpur, Khanakul, Rash Mela, November, Kokanda, Goghat, Kokand Mela, Baruni day, Ghoshpur, Khanakul, Sri Panchami Mela, February, Raghubati, Goghat, Chaitra Sankranti Mela, Goghat, Kadamrasul Mela, 11th, 12th and 13th Falgun, Pandua in Sadar Sub division from the 1st of Magh for a month

#### HOWRAH DISTRICT.

The district (530 sq miles) is inhabited by 1,090,379 souls, being the smallest district in the Presidency

Chief crops in the district include rice and grains. Fruits and vegetables grow plentifully in the district. Jute is grown on a limited scale.

Cotton weaving in this district with Serampore pattern of looms is practised. The chief centres of weaving are ANDUL and ULUBERIA. ANDUL is famous for dhotis of fine quality. Paper making by "Kagzis" is practised to a small extent at MAINAN. The tape and newar weaving industry is confined to a few villages of the district.

Furniture making of venesta wood, glass factory, padlock industry, weaving and cottage industries flourish in this district.

HOWRAH (population 224,873), the head quarter town, is situated on the opposite side of Calcutta and is connected by a pontoon bridge with it. It is the important terminus of the two great Railways traversing Northern, Southern and Central India. The E I Railway carries the agricultural products of Bihar and the United Provinces, the richest agricultural province of India and also serves the coal districts of Bengal and Bihar. The Bengal-Nagpur Railway penetrates into the interior of C P and carries merchandise of foreign trade for that province. Another important branch of the Railway runs as far as Waltair and serves Orissa and a part of the Madras Presidency.

The goods sheds of the Howrah Station are extensive and have a place set apart to serve as a grain market of Calcutta, nay of the whole of Northern India. Here in this market can be found brokers who are busy transacting business in grains that have been consigned to them in wagons from towns in U P, Bihar and the Punjab.

The chief articles of trade consist of mustard oil, wheat, linseed, gram, peas, castor seed, poppy seed, etc., which are sold in the market. All grains and seeds except rice and paddy are sent to Howrah Station, and rice and paddy are consigned to RAMKRISHNAPUR and marketed there. Communication with this place is also easy, goods being brought by rail-steamer and country boats. The mills of Calcutta and Howrah make their purchases here.

Complete information on manufacturing all sorts of milk products are contained in "Milk & Milk Products." Re. 1/12. Industry Book Dept., Cal.

There are several jute mills, engineering workshops, brick fields and flour mills on the banks of the Ganges and these mills engage a large number of men. Besides there is a big mechanical workshops of the E. I. Rly at LILLOOAH, not very far off from Howrah. There are several industrial concerns also.

There are three hats in Howrah town called the "Mongla Hats" the one at Ramkrishnapur was the original Howrah Hat where cloths made out of handlooms and ready made coats and shirts are sold, extensive business in molasses is carried on here. The second hat is called Mimani hat on the Telkalghat Road and the third one is on the Dobson Road, where ready made coats and shirts are sold.

**SALKIA**—It is one of the most important industrial towns in the district and being in the neighbourhood of Calcutta it is growing in importance. There are a number of cotton mills and jute presses in the town. A number of engineering workshops exist, while aluminium wares, ropes, etc., are made on a large scale.

**SANTRAGACHI**—There is a railway workshop of the Bengal-Nagpur Railway at this place. There is a glass factory also. The place is famous for OL commonly known as Elephant's foot.

**BALLY** (population 30,347). It is an industrial town with a few jute mill along the Ganges.

**ULUBERIA**—The Sub-divisional town has little commercial importance though it stands on the river Hooghly. The population of the sub-division is mainly agricultural and the staple crop is paddy. Betel leaves are also grown in large quantities and the Calcutta markets get their main supply of this article of luxury from this sub-division. Coconuts grow in abundance and are sometimes exported from the Uluberia Circle. The local earthen pots which are very good in quality and the Hogla-grass mats, made in abundance are sent to Calcutta markets in large quantities. The river sides of the sub-division have grown in importance on account of the existence of several jute mills, cotton mills and rice mills. The rice mills in the Shampur area, about 20 in number, import paddy from the Sundarbans and Balasore and export rice to Rangoon and other places. Small cottage industries such as making fine woollen shawls in village Jadurberia, making combs from buffalo horns in villages Thaha and Deulgram, making fine clay models in village Krishnabati, cannot flourish for want of support. Roofing tiles are made in abundance in this sub-division also.

### JALPAIGURI DISTRICT.

The district (2,884 sq miles) has a population of 983,170.

The produce of the district includes paddy, cabbage, potato, tobacco and betelnut. Tobacco of the district is gaining in importance. Timber grows abundantly. There are 189 tea estates, 132,159 acres being under tea. In 1940 black tea produced in the district amounted to 86,521,355 lbs and green tea 3,256,593 lbs.

The most important cottage industry is cotton weaving which is carried on mostly at PAHARPUR, TITALYA, KRISTNAGAR, MEERGHAR, BALLIRPARA and JHOLIA. Gunny cloth and coarse silk endi are woven throughout this district. Tea is the chief industry of the district.

The district has a fair trade with Bhutan in piece-goods and silk, which are exported, timber and oranges are also imported from Bhutan. Rice is imported from Dinajpur; other imports are piece-goods, machinery, corrugated iron, tea garden requisites. Centres of trade are JALPAIGURI, TITALYA, RAJNAGAR, SALDAYA, DEBI.

Complete information on manufacturing all sorts of milk products are contained in "Milk & Milk Products." Re. 1/12. Industry Book Dept., Cal.



GANJ, BARUA, JORPOKRI, MAINAGURI, ALIPUR, BUXA The district is well served by roads and railways'

**Fairs**—Fairs are held at Jalpes, Mainaguri, Sivaiairi, 1 month, Banskata, Patgram, Baruni Snan, 15 days, Boalmari, Boda, during Baruni Snan, 15 days.

### JESSORE DISTRICT

The district of Jessore has an area of 2,909 sq miles and a population of 1,671,251 Clumps of bamboos, groves of arecas and other fruit trees are common in the district

Mat making industry is well organised There are colonies of garesies (blanket weavers) from Arrah who weave blankets of coarse quality

KOTCHANDPUR, JESSORE, MADHYAKUL, KESHABPUR and RAJARHAT are the main centres of cloth weaving Date-palm sugar and gur industry are of local importance and the output is estimated at about 25,000 maunds Date sugar and gur are made on a large scale however at KOTCHANDPUR Baskets are also made Combs of buffalo horns and celluloid articles are also made

JESSORE (population 11,356) is the seat of celluloid comb industry, there being three factories working at present

KOTCHANDPUR (population 6,115) is the largest trade market in the district MAHESPUR (population 3,321) is the next town of some importance to trade NALDANGA, CHAUGACHA, MAGURA, KESHABPUR, JHENIDAH, CHANDKHALI, KHAJURA are the other trade centres

The district is served by the Bengal & Assam Railway The road from Calcutta to Jessore is important and the rivers are all navigable to some extent

**Fairs**—Important fairs are held at kalia, Narail, Maich, Rupganj, Tuesday and Saturdays in Baisakh, Ganganandapur, Bongaon, December, Harishpur, Bongaon, January, Garapota, Bongaon, April, Gobra-pur, Bongaon, April, Boyra, Bongaon, May, Matigage, Bongaon, June, Gopalnagar, Bongaon, May, Charaigachi Gaighata, Agraphayan, Moraldanga, Gaighata, Pous, Jaleswar, Pous and Chaitra, Ichapur, Gaighata, Chaitra, Duma, Gaighata, Baisakh, Natima, Moheshpur, Jaista, Tengarpur, Moheshpur, Jaista, Khalishpur, Moheshpur, Falgoon, Moheshpur Municipality, Bongaon, Sravan, Benapole, Sarsha, Jessore, Magh, Subarnakhali, Sarsha Falgoon

### KHULNA DISTRICT.

The district of Khulna (4,730 sq miles), has a population of 19,43,555 Average annual rainfall is about 67"

Betel leaf, pulses, oil seeds, rice, etc are grown There are orchards and garden lands

Considerable quantity of fish is sent to Calcutta Firewood, shells, honey, bees-wax, golpata, canes, reeds are the forest products exported, besides sundri timber Coarse matting is exported

The chief cottage industry of this district is cutlery It is scattered all over the thanas KALIGANJ and SHAMNAGORE and daos, scissors, nut-crackers, sacrificial knives, etc, are the chief products Cotton cloth is manufactured at PHULTALA, BARDAL, MORRELGANJ, ELAIPUR, BAGERHAT, MANGURIA and DUMRIA BAGERHAT has recently become famous for coatings, shirtings, woollen wrappers, etc. Molasses and sugar of different varieties, are made in GAZIRHAT

The earthen pots and jars of KALIGANJ and black earthen jars (used for storing oils and grains) are exported in large quantities

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The chief trade centres are KHULNA (population 19,120), DAULATPUR, FULTALA, ALAIPUR, KAPILMUNI, CHAKNAGAR, CHALNA, KUTARHAT, etc. in the Khulna sub-division: MANSA, BAGERHAT, FAKIRHAT, MORRELGANJ, etc. in the Bagerhat sub-division, SATKHIRA (population 11,241), NAWABANKI, DEBHATTA, CHANDURIA, TALA, BASANTPUR in the Satkhira sub-division. Trade is carried on in permanent markets and hats.

### MALDAH DISTRICT.

The MALDAH district has an area of 1,809 sq miles and a population of 1,053,764

The district possesses magnificent mango groves and gardens. Mangoes of Maldah are considered best in Bengal both in size and in quality, the chief trade centre being ENGLISH BAZAR whence mangoes are carried to Calcutta and other places by boats and by rail

Mulberry silkworm rearing both for seed-cocoons and commercial cocoons purpose as also silk reeling are the most important industry of the district and are conducted on both a small and a large scale. The dried cocoons are procured from Hats and also from rearers direct. The silk is mostly disposed of to merchants of Berhampore (Gangjam) Trichinopoly, Salem, Triplicane, Masulipatam, Travancore, Secunderabad, Belgaum, Surat, Sujanagar (Gurudasapur), Maharakpur, (Azimgarh), Bijnor, Amritsar, Anantapur (M & S M Rly), North Arcot, Bangalore, Tanjore, Bhandara, Akyab, Kayts (Ceylon), Chittagong, Bankura, Benares and other places. The silk of superior quality is now in great demand for preparing parachute as such the industry is playing an important part in war efforts.

Matka weaving industry is carried on in GOYESHPUR and JYOT (English bazar thana), NARATTAMPUR, MOHANBAG, SIONAGAR and DEWANJAGAR (Sibganj thana). Pure silk weaving is carried on in SIBGANJ thana. Mahajans collect the goods and dispose of them to merchants of Rajshahi, English Bazar and Calcutta.

Brass and bell-metal articles are made at ENGLISH BAZAR, KALIGRAM, KANSHARIPARA, (NAWABGANJ) SANKARBATI, CHAR JOT PRATAP, MAJPARA, BILPARAND, AJAIPUR, Lotas, known as Saidullapur lotas, cups and spoons of bell-metal of SANKARBATI and thalis (bell-metal) of different shapes and sizes of KANSHARIPARA are famous.

Cloth is woven at KHARBA, MANIHANDA and GOBINDAPUR in Kharba Thana, KALAIACHUCK and HARINAGAR, LAHARPUR, SATRAJITPUR and JAHANGIRPUR in Shubganj Thana, katari cloth, a fine coloured fabric made out of a combination of silk and cotton, is woven at SHAHAPUR, BALA, and NAGESWARPUR in English Bazar Thana. This is exported to foreign countries through Bombay.

Hides are tanned and shoes are made at HYDERPUR village (English Bazar).

Important rice and paddy centres are ROHONPUR AIHO and BALIA NAWABGANJ, GAZOLE, MIHA and DEBIPUR.

AMINGANJHAT—Chief articles of trade are mulberry silk, cocoon, wound and raw silk. Transactions sometimes rise up to Rs 1,00,000 in a single market day. It is reached by carts.

Other trade centres are ENGLISH BAZAR (population 16,907) and NAWABGANJ (population 15,326).

Fair:—A fair is held at Iho from Jan 18 to Feb 3. A big mela is held at Mathurapur in Manickchak P. S., called Sivaratri Mela, visited by about 30,000 men and women of the adjacent areas. People attach much importance to this fair.

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**MIDNAPUR DISTRICT.**

The district (population 27,98,948) has an area of 5,145 sq miles

The cottage industries comprise carpentry at GHATAL, brass and bell-metal work at CHANDRAKONA, RAMJIBANPUR, KHARAR and GHATAL (highly organised) KHARAR is famous for thalis and gharas Mats are made from locally produced grass in the SABONG and PONSURA THANAS (with about 1,000 workers) The industry is a flourishing one There are large exports of pottery works from the Ghatal sub-division Silk and mulberry weaving are carried on at GHATAL, NIMTALA, BIRSINGHA and DESHPUR Tassar and cotton weaving are carried on at GHATAL (important centre), RADHANAGAR and RAMJIBANPUR, coloured saris are woven at CHANDRAKONA and blankets are woven by a colony of garesies.

There are 57 rice mills in the district

The principal marts are KHARAGPUR (population 58,134) which is a big railway town having a big railway workshop of B. N. Ry CHANDRAKONA (population 6,016) is famous for brass metal utensils, ghee (both cow and buffalo), butter, curdled milk and milk, CONTAL, TAMLUK (population 9,095) (on the Rupnarain) and RAMJIBANPUR (population 6,320)

**Fairs**—Important fairs are—In TAMLUK, Mahisadal, Rath, 7 days, Reapara, Sivaratri, 7 days, Bamunara, Akshaya Tritia, Raghunathbari, Rath, 3 days, Bahisbere, Rath, 7 days, Tamluk, Paush Sankranti and Chaitra Sankranti, Moya (Garsafat), Rash, 3 days, Gajina, Moyna, Bhadra Sankranti, 7 days, Shyam Sundarpur, Panskura, Last Saturday in Chaitra In SABANG, Dangra, Baisak, Mahgram, Charak Sankranti, Khawkhand Raghunathpore, Tulshi Charan Mela, 1st day of Magh, Kolanda, Basi Jat Mela, 2nd & 3rd Magh, Shitalda, Shiva Chaturdashi Day, Kerarbar, last day in Chaitra, Tilantapara, last day of Chaitra, Perua, last day of Chaitra In GARBETA—Raghunathbari and Kantapal, Bagri Krishnagar Dole Mela 4 days; Kantore, Chaitra Sankranti, 3 days, Pingbani, Chaitra Sankranti, Balarampur, Mir Bagan Mela, "Muharram" Festival, Sarenga, Sarenga Mela, 3rd March, In DEBRA—Chandpur, Kedar Bhur Bhari Mela, 12 days from Pous Sankranti, Marotala Satyapur, Satyapur Mela, last day of Baisak In DANTON—Sarasankya, Pous Sankranti, Nahanjara, last day of Pous In KHARAGPUR—Madpur, Gajan Mela, last day of Baisak, Barbanshi Ghalagharay, during "Kali-Puja Festival" and Gajan in Chaitra and Baisak In SALBANI—Megha Khan alias Ramnagar, Saraswati Mela Vegetables, dry fishes, pottery etc, Karnagarh, Mohamaya Mela, Pous Sankranti, vegetables, dry fishes, pottery, etc, Karnagarh, Jhareswar Jat, 30th and 31st Chaitra In KESHPUR—Neradeul, Kameshwar Jat Eight days from Pous Sankranti, Dalhara, Bateswar Mela, Chaitra Sankranti; Bakrabad, Narayangarh, Midnapur, Chaitra Sankranti Mela, Enayetpur, Thana Midnapur, Hati Dhara Burir Jat Day after Pous Sankranti.

**MURSHIDABAD DISTRICT.**

The district of MURSHIDABAD comprises an area of 2,091 sq miles and is inhabited by 1,370,677 people

Brass and bell-metal works of KHAGRA, BERHAMPUR, KANDI and JANGIPUR, are famous Small figures of goods are also moulded here Nut-crackers, locks and nails are made at DHULIAN and steel trunks, safes, etc, are made at JIAGANJ, BHAGAWANGOLA and at SIMULIA in BHARATPUR police-station

Pottery of superior quality are made at KANTHALIA and BOLTULI GORA BAZAR and ISLAMPUR are important centres of silk reeling and weaving There are several filatures in this district Mul-

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berry silk weaving is practised at KHAGRA, BALUCHAR, MIRZAPUR, etc. Soap is made at LALBAGH.

Ivory-carving is carried on in this district. The best carvers of India are found in MURSHIDABAD (population 9,483), KHAGRA and MATHRA being the important centres. Coarse blankets are woven in JANGIPUR. The district (Jangipur and Sadar sub-division area) is an important centre of lac turnery. Paper making by hand is also practised at KRISTOPUR and SHIRAMPUR in S D Jangipur.

BERHAMPUR (population 27,403)—The chief industry of the place is silk weaving. The local merchants have business connection with Madras, Bombay and Calcutta firms and through them with foreign countries also. There is a cocoon breeding farm under the Horticultural Department with a weaving institute attached to it. Mangoes are plentiful during summer.

JIAGANJ (population 10,998)—The chief market of the district is JIAGANJ where various grains, pulses and seeds known as Deshwal goods and free from admixture are obtainable. Balaposh and steel trunks are the articles of trade of this place.

Other important marts are KANDI (population 12,616) with many workshops for bell-metal industry, and DHULIAN (population 9,767).

Fairs:—Religious fairs are held at Kandi while those at Kalitola held in "Pous" and Rudradeva are famous. Other fairs are, —Bishnupur Kalitola, December, Khagra, (January), Lalgola, Lalbagh, Rathjatra, Kiriteswari, P. S Nabagram, every Tuesday in Pous; Panchthupi, January and February.

#### MYMENSINGH DISTRICT.

MYMENSINGH with an area of 6,332 sq miles is the most thickly populated district in Bengal, being peopled by 5,129,664 persons.

Rice is the staple crop. Roughly one-fourth of Bengal jute crop is raised in this district between BHAIRAB BAZAR and GAFARGAON. During 1941, 300,500 acres of land were under jute in the district.

Cotton weaving is practised on a large scale. Cloth (endi) is woven at SANDHIKONA (NETROKONA). Fine sitalpati mats are woven. Bell-metal wares are made at KAGMARI (Tangail). The bell-metal industry at ISLAMPUR (Jamalpur), has practically died out as an industry. This is now confined to very few families. Cutlery of KARGON and BAJITPUR are famous. Cane boxes, molasses and mustard oil are also produced. The so-called Dacca cheese is made at ITNA and biscuits and loaf making are done in KISHOREGANJ sub-division. Pearl finishing is done on the Meghna and the local jewellers purchase the pearls, fix the price and export them to Calcutta. Canework of CHAR ISWARDI is in great demand in the Mymensingh town. Fine specimens of pottery are made. KISHOREGANJ, BAJITPUR produce embroidered and high class saris. Dayamayee Joyanti Sugar Mills has been started at KISHOREGANJ. TANGAIL saris are famous and are extensively sold throughout Bengal. These compete with finer qualities of Farasdanga, Santipur and Howrah. Finer dhuties are made at PATHRAIL, KAGMARI in BAJITPUR. Paper toys are made at BOWAKHOLA.

Hemp strings and ropes are largely manufactured at BHAIRAB and the neighbouring char lands. Dragging ropes (goon for boats) are made in the Meghna side and in Kishoreganj sub-division. High quality chairs, bedsteads, fancy articles of wood, e.g., spectacles cases, clock-brackets, teapots, etc., hookah tubes are made at BAJITPUR. There are match factories using local timber.

Chief exports are jute (to Calcutta) being baled at Seraganj and Narayanganj, mustard, fish and hides and skin.

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Important centres of trade are MYMENSINGH (population 30,480) SHERPUR (population 19,547), JAMALPUR (23,077), TANGAIL, (16,082), NETROKONA (population 10,980), KISHOREGANJ (population 15,437), BAJTIPUR (11,650), SUBARNAKHALI (jute), BHAIRAB BAZAR (miscellaneous business centre), DUTTS BAZAR (jute), KATHIADI (sugar and jute), KARIMGANJ (jute), NILGANJ (fish, jute), GOURIPUR (rice and jute), SARISHABARI (biggest market for jute), NIKLIDAMPARA (jute) TARAGANJ BAZAR, P S Nalitabari is one of the important centres of the District for export of paddy and also Garo cotton

**Fair:**—A cattle fair is held at Jamalpur during January

#### NADIA DISTRICT.

The district of NADIA (3,404 sq miles, population 1,532,418) takes its name from Nabadwip

Orchards and market gardens occupy about 100,000 acres and produce good mangoes and potatoes which are consumed in Calcutta.

The chief industries of the district are cotton weaving, pottery, basket-making, brass, copper and bell-metal work, gur making, etc SANTIPUR is famous for fine saries and dhuties KUSHTIA is also of growing importance and has a cotton mill It is also famous for chaddar and metal utensils The pottery industry is carried on, on a large scale, in RANAGHAT, MEHERPUR, KRISHNAGAR, SANTIPUR etc The earthenware models of KRISHNAGAR, RANAGHAT and SANTIPUR have a reputation of their own They find a market even in European countries Tin box making is now progressing at KRISHNAGAR Blankets are made at GOARI, MAJDIA, MAHESHGANJ, SHIKARPUR and also at KRISHNAGAR, MEHERPUR, and SWARUPGANJ, and the products are disposed of locally and abroad

KALIGANJ and DEBAGRAM of Sadar Sub-division and Palashipara of Meherpur Sub-division are famous for hat making industry BALIADANGA, P S Karimpur and Chulkhali, P S Tehatta are famous for conchshell cutting industry

A big industry has taken its rise at Darsana e.g., Sugar Mill of Messrs Carew and Co Ltd, in the Chuadanga Sub-division Manufacture of sugar is conducted on a large scale at this Sugar Mill Manufacture of spirit also is being carried on at the Distillery of Messrs Carew and Co There is a factory for making sugar cane crushing machine of Messrs Renwick & Co, at Kushtia There are also two hosiery manufacturing concerns, one at KUSHTIA and other at BARADI

A pucca tarmacadamised trunk road now joins this district with Calcutta

A large sugar mill has been built at PLASSEY There is also a factory for making sugar cane crushing machines which deserves mention

Important trading centres are KRISHNAGAR (population 24,284), NABADWIP (population 18,861), SWARUPGANJ, RANAGHAT (population 11,395), HAT-BOALIA, CHUADANGA, KUSHTIA (population 9,405), KUMARKHALI and KHOKSA MEHERPUR is an industrial centre for cloth, gur, hides, etc

**Fair:**—Kuliarpur mela in December for three days is held under the auspices of Calcutta Pinjarapole Society at Kanchrapara in which a big cattle show is a prominent feature Tehatta mela at Tehatta continues for a month in December from Pous Sankranti Baldya Nath tala Mela is held for a fortnight in February every year from Shib-chaturdashi There is big cattle market at Munshiganj.

Numerous fairs during religious festivals are held at Nabadwip (Feb and Nov), at Santipur (in Nov), at Kulia (in Jan) and at

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Ghospara (in March). A fair is held at Ballavpur in the 2nd week of January. Big industrial and agricultural fairs are —(1) Barodole Mela at Krishnagar Rajbati compound in April, duration 15 days (2) Jugal Kishore Mela at Araighatta in the months of May and June, 1 month.

#### NOAKHALI DISTRICT.

The NOAKHALI district (1,591 sq miles) contains a tract of main land together with a large number of islands (Sandwip and Hatia) in the mouth of the Meghna. The population is 1,706,652.

Chief centres of cotton weaving are FENI, CHHAGALNAIYA, PARASURAM, BEGUMGANJ, FATEHPUR, LAKHIPUR and CHANDRAGANJ. Coarse and fine yarns locally spun are available in the markets of FENI, CHHAGALNAIYA, PARASURAM and SONAGAZI and are exported outside the district. Check, chintzes, dhuties are woven, mosquito-nets are made at CHAUMUHANI. Sitalpatis, Chuknis and chatais are made at MATABI, FAZIPUR, PARASURAM and CHHAGALNAIYA both for export and local use. Other industries are cutlery, scissors, knives, etc., at DATTAPARA (with horn handles).

Elaborately carved bedsteads are made at SWARUPUR and GOPALPUR. Punnal Oil is extracted from Punnal fruit growing in the island of SANDWIP in MADANHAT and MAITTBHANGA, BHUAIRHAT, HATIYA and CHOWDHURI'S HAT, and is exported to Dacca, Chittagong and Hatiya Island for soap making. Coconut in this district being fairly large, coir-making industry has great possibilities, particularly in Sandwip, Lakhimpur and Hatiya, abounding in coconuts. There are two soap factories in South Hatiya and three in Sandwip. Sufficient quantities of hides are available in the chars. Rugs are made of Cawnpore and local wool, ordinary, blankets and prayer seats made of pure local wool have already won a reputation.

Bamboo mat making industry is carried on at FAZIPUR, MOTAVI, SARISADI and PARASHURAM etc and are exported to Calcutta and Kuthia etc, in large numbers. Umbrella making industry has been started recently in FENI town.

Coconut, betel and betel leaves are grown in plenty and are exported to Chittagong, Chandpur, Bhairab, Mymensingh, Narayanganj, Dacca, Pabna, Rajshahi and other places by means of boat.

Cotton weaving is one of the industries of the Island Circle. Women folk make mats from the leaves of a plant called Hugla Pata extensively.

Towels, sujnis, ordinary saris, table cloth and coarse chaddars are prepared in Sadar Circle and exported to Comilla and Chandpur.

Important centres of trade are NOAKHALI (population 13,063), FENI (population 10,375) and CHAUMUHANI.

Noakhali is one of the largest rice producing districts and about a quarter of a million tons is exported every year from this district.

**Fair:**—One industrial and agricultural exhibition is held in winter every year in the Feni town. Two small fairs are held in two places of Feni sub-division only for a day or two. One fair is held on the 1st and 2nd of March at Chandpur (Feni P. S.) One fair held at Basura (P. S. Parashuram) on the 2nd of Baishakh every year in the compound of an old temple.

#### PABNA DISTRICT

The district of PABNA (1,818 sq. miles) has a population of 14,445,479.

Plots near the homesteads are grown with vegetables and melons, Jute was grown over 72,155 acre in 1941.

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Cotton weaving is the most important of all cottage industries in this district. Roughly stated, yarn both grey and coloured to the value of Rs 50 lakhs is consumed yearly in the district. There are six jute presses in the district. Great centres of trade for locally made cloths are EKADANTA, MATHURA, SUJANAGAR, DEMRA, AJGACHA, DELMARHAT, SHAHJADPUR, KOIJURI, etc., etc.

CHOTADHUL, DOGACHI, GANGARAMPUR, SADULLAPUR, TARBERIA, NISCHINTAPUR are noted for sails, dhutis and good loongies. Gamchas of Pabna are widely in demand.

Pottery, brass and bell-metal articles, and shell bracelets are made at CHATMOHAR.

Mats of grass and reed and cane work are made in MAJJPURA. Sitalpati mats are woven in the Serajganj sub-division. Dyeing is carried on locally for borders of saris and dhuties in this district. Paper made locally is used in the Serajganj sub-division but the industry is declining. There are nine factories at PABNA (population 21,904) where stockings, genzies, etc., are manufactured. Of them Silpa Ganjibani deserves special mention.

SERAJGANJ (population 32,467). Enormous quantities of jute are brought here by carts or by steamers and are baled and pressed and then sent down to Calcutta. Considerable trade occurs in grains, seeds and pulses.

Important trade centres are PABNA, SERAJGANJ, BERA (jute press) ULLAPARA, DHAPARI and PANGASI.

Fairs.—Lahiry Mohanpur, Ullapara, Middle of Shrawan, 1 month. Angaru, Ullapara, every Saturday in the month of Baisak, Bhulyagathi, Raiganj, Asthami Mela, Basanti Astami day, Pabna, January (Industrial and Agricultural). Chack Kani, Guudaspur. In April, 15, 20 days. Arankola, Sara, October 1 month. Cattle, Debottar, Atghoria, 1 month. Cows only, Kashinathpur, Santhia, Thursdays, Cattle, Santhia river side, Baruni Mela 1 month. Karanja, Santhia, First Week of May, 15 days, Cattle, Ullapara. Delwarganj Mela, 1st Poush, 4 months.

#### RAJSHAHI DISTRICT

The district comprises an area of 2505 sq miles and is peopled by 15,71,453 persons.

Chief crops are rice and jute, the latter grown over 70,670 acres. Betel leaf and mulberry are grown plentifully.

Brass and bell-metal wares are made at KALAM in the Natore sub-division, while brass, bell-metal and bharian utensils are made at BUDHPARA. Bell-metal thalis (plates) and cups, bharian tumblers and brass pitchers, big pots (handis) and pans, etc. of different shapes and sizes are made.

Matka chaddars, dhutis, and saris with red silk borders are made with yarns from Malda. Blankets are made in KESHABPUR-VERIPARA (village) from sheep's wool imported from Bhagalpur, Calcutta and other places. Woollen blankets are also manufactured on a small scale at RAJSHAHI TOWN from the country sheep wool.

Cotton weaving is carried on in many of the small villages. Tanning and shoemaking is done at SHIPAI PARA (Sadar Sub-division) and LALPUR (Natore sub-division). Other industries of the district include the making of steel trunks, suitcases, boxes, etc., from raw materials imported from Calcutta, cane and bamboo work, tile making and making of earthenware pots, plates, etc., and gun making all over the district. There is a big sugar mill, known as North Bengal Sugar Mill, at Gopalpur on B & A Ry.

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Catechu is manufactured at CHARGHAT and its neighbourhood. Gur made from date juice is also exported in large quantities from November to March from Charchhat P. S. and Lalpur P. S. Mats and earthen pots and Raniganj imitation tiles are prepared in Naogaon Sub-Division.

Principal marts are SULTANGANJ, GODAGARI, RAMPUR-BOALIA, and CHARGHAT on the Padma, CHANGDUPAIL and GURUDASPUR on the Baral, KALIGANJ on Chalan Bil, PROSADPUR on the Atrai. NAOGAON on the Jamuna. DURALHATI, NATORE, etc., LAKSHMANHATI is a centre where sugar crushing mills and pans are given on hire.

RAJSHAHI, (population 40,779)—It is the head-quarters of the district. Ice factory, match factory and sugar mills have been started.

SANTAHAR, DIGHAPATIA, DUBALHATI, PUTHIA, RAMPUR-BOALIA, GODAGARI (on the Padma), BHABANIGANJ and MATAJIHAT are also good centres of trade.

MATAJIHAT is one of the biggest hats about 12 miles from Akkel-pui Railway station or Hill Station where a large amount of inland trade in rice, grains, seeds, cattle is done.

Fairs.—Famous melas held in the district are KHETUR in October, MONDOR in the month of April, and CHANCHKOIR under Gurudaspur P. S. in Natore S. D. at the time of Chait Sankranti for 3 months. These are largely attended, and many articles of trade are sold, including livestock and agricultural implements. Other fairs in the district are—In SADAR Sub-division—Puthia Bazar, Rathajatra, 15 days, Rostumpur, July to August, 20 days, Puthiamari, December, 1 month, Gopalpur, Kaloo Pir Sahib's Darga, in April, 7 days, Khetur, October, November, 6 days; Sultanganj, February, 3 days, Bagha, 10 days from the Id Festival, Narayanpur, February, 1 month, Munshipur, June-July, 15 days, Rathajatra festival, Taherpur, in Ashar, 8 days, Rathajatra festival, Bhabaniganj, in Magh; 8 days, Dhenkutala, in Baisak, 1 day, Dhanura, in Kartik, 1 day, Kali Pujah; Kamergaon, in Aswin, 1 day, Durga Pujah; Kalganj, Middle of July, 15 days, Nahatta, end of November, 3 days; Arani, in July, 3 days, Madaripur, Muharam day, 1 day, Ana, in Chaitra, 3 or 4 days. In NAOGAON Sub-Division—Dubalhati, in Chaitra, 3 or 4 days, Dubalhati, in Ashar, 10 days, during Rathajatra; Bahar, during Rathajatra, 10 days, Salgachi, in Aswin, 1 day, Durga Puja, Muradpur, in Kartik 1 day, Kartik Puja, Kajjal, in Shraavan for one month, Durgapur, during Muharram, 3 days, Jamgaon, during Poush Sankranti, 3 days, Trimohani, in Chaitra, 3 days, called Baruni mela; Buridah, during Rathajatra, 10 days, Fatehpur, in Bhadra, 3 days, Thakur Manda, in Chaitra, 10 days, Ram Nabami. In NATOR Sub-division—Lalor, in May, 7 or 8 days, Kalam, 1st Part of June, 5 days, Raigaon, Alias Matajihat, in Poush, 2 months, Cattle, Shawali, in June, 10 or 15 days, Kalganj, in February, 10 to 15 days, Pakuria, in February, 4 or 5 days, Budpara, in Kartik, 1 month.—Nazipur, in June, 6 or 7 days, Halsha, in June, 6 or 7 days. Others, Ramkeli, Rajshahi, (Religious), Mahadebpur, 15 days, Rathajatra.

#### RANGPUR DISTRICT.

The district of Rangpur covers an area of 3,286 sq. miles, and is inhabited by 2,595,287 persons, shishu, mango, areca palm, jack, bamboo, plantain, bakul, nageswar, etc. are abundant.

One-tenth of Bengal jute is produced in Rangpur. Tobacco thrives best on the sandy bank of the Tista river and has a good reputation in the outside markets. There is a tobacco experimental farm at BURIRHAT.

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The chief industry of the district includes brass and bell-metal work at GOMNATI in the Nilphamari sub-division. Durries and gunny (made of jute and cotton) are also woven near DIMLA. Ivory carving is practised at PANGA in Lalmonirhat. Satrancha weaving industry is carried on at NESBATGANJ. Cigar making industry is in its infancy here. The produces are far from satisfactory. Shoes are made in Rangpur town from leather got from Calcutta.

There are jute presses at DOMAR, and SAIDPUR (a railway centre). The centres of jute trade are DOMAR, DARWANI, SAIDPUR and RANGPUR town. Tobacco is sent to Burma by the Arakanese. Rice comes from the neighbouring districts, coal is brought from Burdwan. Endi cloth is woven in small quantities at KARIPUR, SUNDARGANJ and BELKA in Gaibandha sub-division, and cotton cloth, also on a very limited scale, is made at PATILAPUR and KHAMAR-KISHORPUR (Kurigram) and DIMLA in Nilphamari sub-division.

DOMAR—It is the centre of tobacco cultivation in the Rangpur district. Merchants from Calcutta and U. P. come here to purchase tobacco.

Important centres of trade are RANGPUR (population 20,749), SAIDPUR (population 16,519), KURIGRAM (population 8,542), GAIBANDHA (population 8,479) and FULBARI.

**Fairs.**—Chief fairs are—Madati, 2 miles from Bhotmari Ry Stn, Madati Baisaki Mela, 1st Baisak, one month, Anantaram, 2 miles from Pirgacha Ry Stn, Rathajatra, 1 month, Anantaram, 2 miles from Pirgacha Ry Stn, Rathajatra, 1 month, Thakurbari in Mithapukur P. S., Kalsidheshwari Mela, 15th Aswin, one month, Gangachara, very close to Gangachara P. S., Rash Purnima day, one month, Badarganj, 1st Poush, one month, Bara Khata, very close to Bara Khata Ry Stn, Poush, one month. In SADAR S. D.—Laldighi, 15th Poush, one month, Bhotmari Stn, Madan Mohan Dev Mela, 5th Magh, one month, Bhendabari, 5th Magh, one month, Kholahati, Barani Snan Day, one week, Ekbarpur, Maharganj Mela, 15th Magh, 15 days, Deuty Maghi Mela, 15th Magh, one month, Barati, 10th Falgoon, one month, Sikerhat, Chaitra, one month, Gaddimari, 25th Chaitra, one month. In GAIBANDHA S. D.—Bamandanga, Jagadhatri Puja Day, one month, Sundarganj, Ganesh Janani Mela, 1st Agrahayan, one month, Madhupur, 1st Agrahayan, one month, Belka, 1st December, one month, Kalibari, 15th November, one month, Fulchari, Gopinath Deb Mela, 1st Poush, one month, Birat, in Chaitra, one month. In KURIGRAM S. D.—Burirhat, Bidheswari Mela, 31st Aswin, 2 weeks, Hybatkha, Hybatkha Mela, Shyama Puja day, 2 weeks, Diadanga, 16th November, one month, Shibbari, 8th March, one month, Noon Khawa, Astami Snan Day, one month. In NILPHAMARI S. D.—Barabhita, 15th Agrahayan, one month, Panga, 1st Magh, one month, Darwani, 5th Falgoon, one month, Tatulia, Barani Snan Day, one week.

#### TIPPERAH DISTRICT.

The district (2,624 sq miles), has population of 1,600,764.

Area under tea in the district in 1939 was 125 acres producing 24,371 lbs of black tea. Jute covered an area of 127,260 acres in 1941.

COMILLA is famous for its checks and chintz for making shirts and coats and weavers of BRAHMANBERIA and BITGHAR make good patterns. The chief centres of cotton weaving are TANTIPARA, MAJIKARA, RUPASDI and JENODPUR and BURDAIR (in Brahmanberia) and DHANTI, PIHAR, DISHABAND, BAGMARA, BUDHAR, JASHPARA, MAINAMATI, GUNJAR, KALIKAPUR, GUNABATI and

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JORKARAN (in Sadar S. D.). There are 18 jute presses in the district.

The chief centres of the jute weaving industry are RAMMOHAN (Sadar), HOMNABAD, SHIBNAGAR, RAJMANGALPUR, MIRPUR, DHARAMNAGAR and SHIBPUR.

Hooka making industry of Tipperah is famous. The shells are obtained from Dacca, Backerganj and Noakhali. Nalchias are made from wood obtained in Hill Tipperah forests. The chief markets for these articles are Dacca. Mymensingh, Jalpaiguri, Brahmanberia and Assam. The chief centres for articles of bamboo, cane and sola are KALIKAPUR and BURICHANG.

The chief centres for brass articles are BRAHMANBERIA, RAMCHANDRAPUR, MAJPARA, BETGARE, MOGRA, BADURGAH and PANDBAN-KHANBAZAR and brassware such as kalsis, ghatis, degchis, etc. are made out of imported rolled sheets and exported to the neighbouring districts. The chief centres for tanning and leather goods are COMILLA, CHANDPUR, CHANDINA and BRAHMANBERIA. The pottery industry has its centres at HARIPUR, BUDHANTI and BRAHMANBERIA. At BRAHMANBERIA there is also a tile factory. Bell-metal utensils, basket, cane-work and sital-pati are made.

Dry-fish is an important industry of the district. A kind of fish oil is also made from livers of fish. The Sadar and Brahmanberia sub-divisions are centres for iron and steel articles. High class cutlery and ramdaos, khargas, fish-knives, spades, etc. are manufactured by blacksmiths of MEDDA and RAMCHANDRAPUR. Iron safes on a small scale, are made at PURAN BAZAR, CHANDIPUR, and buckets and trunks at MOGNITOOLI, MONHARPATTI and KANDIRPAR in Comilla. On a small scale also, umbrella-making is carried on at BRAHMANBERIA and COMILLA with imported cloth and sticks. Soap factories exist at SALIMGANJ BAZAR and SREEGHAR BAZAR in Brahmanberia Sub-division. There is also a rub-making factory at COMILLA.

HAJIPUR (population 16,938) on the river Dakatia with the Chandpur Sub-division is an important trading centre and assembling and distributing market for exporting betelnut, chilhes, jute and importing rice, paddy and tobacco leaves. The Bhagyalakshmi Cotton Mills and a number of Jute Companies operate here as purchasers and exporters of jute. Its good communication facilities, particularly with the trade centres like Raipur, Sonapur of Noakhali district invest it with sufficient interest as a trade centre.

Important trade centres are CHANDPUR (population 16,838) with big trade in jute and tea, COMILLA (population 31,365) famous for its exports of well-polished hukkah, belun, kharam, sticks, bell-metal utensils, etc., and cotton of Hill Tipperah, FANDAU, a centre of raw hide trade, BRAHMANBERIA (population 26,662), and RAMCHANDRAPUR (bell-metal and cotton weaving industries). Jute trade centres in Brahmanberia S. D. are CHANDURA, FANDAU, BHOLACHANG, MAJHIARA and BANCHARAMPUR. Cattle markets are located at SREEGHAR BAZAR.

Fairs:—Panchpukuria, Kashba, Mehar Kalibari, Bholachang in Brahmanberia S. D. An industrial, health and cattle show is held at Pattan (R. S. Brahmanberia) in winter.

#### 24-PARGANAS.

The district of 24 Parganas (2,536 sq miles) has a population of 2,714, 878.

Important centres of trade are BUDGE-BUDGE (population 24,183) BARANAGAR (pop. 37,050); KAMARHATI (population

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30,334), TITAGARH (pop 49,584); GARULIA (pop 14,033), PANIHATI (pop. 11,699), NAIHATI (pop 30,903), HALI SAHAR (pop 16,770), BHATPARA (pop 84,975), KANCHRAPARA (pop 15,005), BASIRHAT (pop 21,287) BARRACKPORE (pop. 30,600 and CANTT. 10,982), and BADURIA (pop 15,005).

There are 539 factories in the district, mostly situated in the neighbourhood of Calcutta Famous jute factories are situated at BELGHARIA, AGARPARA, SODEPUR, ISHAPUR, KANKI-NARA, etc, which are now thickly populated Among other works, silk filature and mill, tanneries, bone mills, saw mills and tea chest factories, spinning and weaving, jute presses, rope and ply-wood factories, iron foundries, glass factories, brick, tile and fire brick factories, oil mills, soap and candle factories, lac and cutch factories, chemical and drug works, biscuit factories, rice mills, etc may be mentioned According to the Annual Report of the Administration of Factories in Bengal during 1938, of the 539 factories in operation, 533 were perennial and 6 seasonal The factories include 8 cotton mills, 12 hosiery mills, 56 jute mills, 5 silk mills, 23 jute presses, 2 iron smelting factories, 60 engineering companies, 9 kerosene tinning firms, 2 ship building companies, 7 electrical engineering workshops, 4 bakeries, 5 ice and aerated water factories, 11 chemical factories, 13 match factories, 9 soap factories, 2 paper mills, 5 paint factories, 5 lac factories, 7 bone mills, 11 saw mills, 1 gramophone record making company and 15 rubber shoe factories Persons employed in the factories are 283,544

The chief centres of hand-loom weaving are PUNNA-BADURIA and BARASET Mosquito curtains are woven at BARASET and napkin, checked cloth for mosquito curtains and quilts are made in EKBALPORE The embroidery industry is carried on in BARASET and HALISAHAR Ropes are made from sunn-hemp and jute at BHABANIPORE in Barrackpore and sold locally TILJALA, near MOLLAHAT in Tollygunge, SHAHAPUR, DURGAPUR, GOPALPUR and TANGRA Leather suit-cases and attache cases are made in NORTH DUM-DUM in Barrackpore Matches, glass, gramophone records, aluminium wares, etc are manufactured in SOUTH DUM-DUM and the articles are disposed of in Calcutta The famous brass locks of NATAGORE have suffered from foreign competition The industry also is dyeing out in SENLI UNION and NIMTA (Barrackpore) Padlocks are also made at DENLA, KHAMARPARA, BARANAGORE and DUTTAPUKUR (Baraset) and the products are sold locally and in Calcutta Basket making, as a part time industry continues in NARA-YANPUR and BALLY (Barrackpore) and the products have a local demand Brass utensils are made in DIAMOND HARBOUR Sub division and there is one ice factory at HASANABAD

**DUM DUM**—A growing industrial town in the District The place is noted for the Aerodrome where foreign mails are received There are iron workshops, aluminium factory, gramophone factory, cardboard making factory, match making factories, rope factories, glass and tent factories in the town One company has shown commendable enterprise by making various medicines from venom extracted from snakes

**BATANAGAR**—A new industrial town named after Thomas Bata of Messrs Bata & Co, who have established a shoe factory here 12,000 employees produce 189,000 pair of shoes weekly

**Fairs**:—Important fairs in the district are —Saugor, Saugor Islands, Poush Sankranti, Bikanda, Agricultural and Industrial Exhibition, at the end of February, Sodepur, 24 Parganas, December, Agricultural

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# MARKET PLACES OF THE BOMBAY PRESIDENCY

**T**HE Bombay Presidency includes a long and narrow strip along the West Coast of India containing the provinces of Konkan, Khandesh, Poona and Satara. The area of the Presidency is nearly 77,221 square miles and is inhabited by 20,858,000 persons.

**Soil and Climate:**—The Presidency embraces a wide diversity of soil and climate, and is divided into two parts namely Guzrat and the Deccan, by the Rann of Cutch and the Gulf of Cambay. Guzrat, aptly called "the Garden Land of India" stands first in richness of soil and density of population and is watered by many rivers, notably among them being the Narbada and the Tapti. The remaining portion of the province is divided into high and low level tracts by the ruggedness of the W. Ghats, which run parallel to the W. Coast for many hundreds of miles.

**Crops and Produce:**—The chief crops of the Presidency are wheat, cotton, ragi, jowar, bajra, spices, sugar, sesamum and rice, 39 million acres of land was under cultivation of cotton during 1940-41 as against 37 million acres in 1938-39 and 39 million acres in 1937-38. Rice covered 20 million acres, wheat 18 million acres, barley 15,000 acres, jowar 82 million acres, bajra 41 million acres, maize 186,000 acres, gram 595,036 acres, groundnut 1,580,000 acres, sesamum 162,000 acres, linseed 112,777 acres, castor 41,000 acres, sugarcane 117,000 acres, tobacco 174,000 acres, ragi or marua 640,000 acres, fruits and vegetables 205,000 acres and condiments 241,000 acres, fodder crop 23 million acres, coconut 8,000 acres, other food grains 2,839,000 acres, Fish manure and pondrontee are the chief manures. The crops are generally raised by rotation.

Area under crops during 1940-41 in the Presidency was over 29 million acres while area lying fallow is 5 million acres, culturable waste 932,000 acres, area not available for cultivation 57 million acres and forest 83 million acres. The districts where the produces are most prolific are Rice—Thana, Ratnagiri, Larkana, Kolaba; Wheat—Bijapur, Dharwar, Satara, Cambu—Nasik, Ahmednagar, Bijapur, Poona, Ragi—Ratnagiri, Nasik, Kaira; Maize—Panch Mahals, Gram—Nasik, Panch Mahals, Satara, Poona; Pulses—Nasik, Satara, Ahmednagar, Belgaum, Dharwar, East Khandesh, Linseed—Bijapur, Ahmednagar, Sesamum—Ahmednagar, Ahmedabad, Groundnut—East Khandesh, Satara, Sholapur, West Khandesh; Coconuts—Ratnagiri, Kanara, Castor—West Khandesh; Condiments, Spices—Dharwar, Satara, Belgaum, Cotton—Dharwar; East Khandesh, West Khandesh, Broach, Belgaum, Ahmedabad, Dyes and Tannin Materials—Ahmednagar, Sholapur, Poona, Tobacco—Kaira, Belgaum, Satara, Fodder Crops—Satara, Sholapur; Fruits and Vegetables, Poona.

A comparative statement of crops during the last 5 years follows:

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	1936-37	1937-38	1938-39	1939-40	1940 41
	(Area in 1,000 acres)				
Linseed	123	107	125	157	152
Groundnut	987	1,214	1,436	2,525	2,384
Sugarcane	83	170	114	115	117
Jowar	9 941	8,073	7,728	7,800	8,155
Bajra	2,589	4 030	4,253	4,300	4,087
Maize	185	164	173	173	186
Gram	641	674	595	595	585
Rice	1 830	2,037	2,015	2,296	1,970
Wheat	1,654	1,831	1,861	1,686	1,752
Cotton	3,713	3,863	3,699	5,263	3,885
Castor	47	38	46	46	33
Rape & Mustard	18	20	18	23	25
Sesamum	132	147	210	210	162
Tobacco	160	145	170	155	158
Spices	—	—	238	238	241

**Cattle**—Ponies of Bombay are hardy and celebrated. Cattle breeds of Gir, Kathiawar and Gujrat are noted and the breed is generally good.

**Fisheries**—Sea-fisheries are famous and give employment to many. Fishes for food and manure are also obtainable in the rivers and tanks.

**Forests**—Area under forests in the Bombay Presidency is 12,998 sq miles which is about 17 per cent of the total area of the province, but of the above area only 9,891 square miles are forest proper, 2,929 square miles are pasture reserves and 178 square miles are fuel and fodder reserves. The forests on the Ghats yield teak, sandalwood and other timbers. Acacia, catechu, ebony, etc., grow in abundance while coconut palms, palmyras, betelnut palms, date palms occur plentifully. Various fruit trees, e.g., mango, jack tree and ber, myrobalans, mahua, karani, etc., are found in the province.

**Minerals**—Building stone and salt are the principal minerals. Porbandar and Dharangadhra contain best stone. Gold and gold dust were formerly found in Dharwar. Agates are found in the Deccan and Gujrat. Manganese is mined to the extent of about 60,000 tons annually.

**Handicrafts**.—Every district carries on hand-loom weaving in spite of competition from machine-made varieties. Saris and turbans are the main varieties. There are about 2 lakhs of weavers in Poona, Nasik, Dharwar, Belgaum and Sholapur districts. Dyeing is carried on in Gujrat, Kathiawar and in the Maratha districts. Silk is also woven in Surat, Ahmedabad, Yeola, Nasik and Thana districts. Country blankets come from the Deccan and Karnatic. Preparation and production of sunn hemp are carried on. There are many goldsmiths. Spearheads of AHMEDABAD and knives of AMOD are celebrated, glass making, lac industry, ivory and tortoise shell work are done at Bombay and in Gujrat. Wood carving is done at AHMEDABAD, SURAT and KANARA. Sugar and gur are made wherever cane is grown. Real gold thread industry is carried on in SURAT, BOMBAY, AHMEDABAD, POONA and YEOLA. Salt is made at KHAGODA and UDU and is known as Baragara salt. Other important art-crafts of this Presidency are—Carpet weaving, calico printing, embroidery, kinkhabs, pottery, jewellery, stone work, brass and copper, metal work, etc. carried on at places like BOMBAY, AHMEDABAD, SURAT, BROACH, POONA, NASIK, YEOLA, GOKAK, TATTA, HALA, BURAK, KASHMORE, KHANOT, SAWANTWADI, HONAVAR and KUMPTA.

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**Major Industries:**—Cotton industry is the principal industry of the Bombay Presidency. It is an old-established industry, carried on mainly under Indian management with Indian capital. The most important centre of production is Bombay city and Island. The second centre of the industry is Ahmedabad. The other centres include Sholapur, Surat, Broach and Jalgaon. There are altogether 201 cotton mills in the Presidency fitted with 57·2 lakhs of spindles and 1·3 lakhs of looms. During 1941-42, 776 million lbs. of twist yarn was spun and 2,696 million yds of goods were woven. Silk and wool are also manufactured in Bombay. Production of woollen goods in 1937-38 amounted to 15 million lbs. In 1939-40 hosiery goods weighing 1,657,000 lbs were produced in the Presidency.

There are match factories situated in the neighbourhood of SANTA CRUZ, GHODBUNDER, KURLA and THANA. Cigarette manufacture has made considerable headway in the Presidency. Among other new types of factories may be mentioned refining and smelting of non-ferrous alloys, bachelite materials, electric fans, razor blades, slates, pins and needles, dry cells, fire works, brushes, soap, glass, chemicals, casein, pottery, handmade paper, paints, tallow substitute, carbon paper, clips, etc. There are a number of factories for tanning hides and skins. The possibility of producing aluminium in Bombay, and of aluminium containers for the preservation of fruits, and especially for the preservation of fish and similar commodities are under investigation. There are a large number of film producers in the Presidency.

During 1941-42, 10 sugar mills were in operation, which are estimated to produce 84,800 tons of sugar.

**Irrigation.**—Of the total area of 28,171 million acres sown in the Presidency, 245,000 acres are irrigated by Government canals, 67,000 acres by private canals, 112,000 acres by tanks, 694,000 acres by wells and 20,000 acres by other sources, total area irrigated amounting to 11,38,000 acres. Chief irrigation works in the Presidency are Ghar Canal, Desert Canal (247 miles), Fuleh Canal (413 miles), Pinyari Canal (386 miles), Western Nara and Pritchard Canal, the total mileage being 4,031 miles.

**Trade:**—The articles of internal trade are cotton, grain, metals and cotton goods. The distribution of articles of trade is generally made through fairs held in connection with pilgrimages and in temporary and weekly bazars. Rice, coconut, salt, cotton, timber and piece-goods are the main articles in coasting trade. Raw cotton, grain, pulses, seeds, hides and opium are the chief exports. The imports are piece-goods, metals, machinery, sugar, oil, silk and woollen goods.

**Fish Industry.**—The fish landed in the Bombay Presidency is in striking disproportion to its vast area and to the need of a very large section of the population with whom it forms a regular item of diet. The fish landed averages 50,000 tons only worth Rs. 80 lakhs. Bombay Presidency's small catch of fish largely accounts for the poor per capita consumption of the potential fish-eating population, which constitutes about 70 p.c. of the entire population. The per capita consumption in the Bombay Presidency amounts to about 7 lbs, whereas in Britain amounts to 43·6 lbs and in Japan to nearly 110 lbs.

**Scope For New Industries.**—There is scope for the starting of the following industries in the Province, brass and copper piping, lead pipe and sheets, small electric motors upto 10 h.p., small hand-tools, manufacture of combs, manufacture of fountain pens, emery and sand-paper manufacture, charcoal briquetting, manufacture of veneers and plywood and pencil manufacture. Construction of a cigarette factory with the latest machinery is under progress.

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**Assembly**—Total seats 175, Upper House—Total seats 30

**Transport**—The chief railways serving the province are G.I.P., B.B. & C.I. and Southern Marhatta. There are several small tramway systems. The British India line of steamers ply between Karachi, Persian Gulf and Mangalore and the British India Steam Company serves the ports between Mangalore and Bombay generally. The length of railway lines in the Presidency is about 5,500 miles.

All the important towns and cities are connected by motor bus service with the interior villages for carrying passengers. The motor lorries carry a good amount of goods now-a-days in big cities.

### FOREIGN TRADE OF THE PROVINCE OF BOMBAY.

The figures of foreign trade of the Bombay Presidency excluding Sind follow —

Imports:	1935-36	1936-37	1937-38	1938-39	1939-40
			(in lakhs of rupees)		
Merchandise	54,53	49,33	73,74	60,15	66,80
Treasure	6,79	12,99	2,59	1,68	—
<b>Exports</b>					
Merchandise (including re-exports)	33,18	44,45	39,90	36,22	41,40
Treasure	44,22	29,47	18,42	12,19	—

Further details of the foreign trade showing the principal items of trade follow

	Imports			
	1936-37	1937-38	1938-39	1939-40
	(in lakhs of rupees)			
Cotton, raw	5,40	11,18	7,90	7,53
Cotton Manufactures	4,36	4,71	3,69	3,54
Machinery & Millwork	3,65	5,42	4,78	4,33
Artificial Silk	3,02	3,62	1,74	3,77
Metals & Ores	2,59	3,91	2,84	2,84
Motor Cars & Motor Cycles	2,51	3,74	2,57	3,27
Dyeing & Tanning Substances	2,07	2,66	2,20	2,55
Instrument & Apparatus	1,99	2,54	2,21	2,12
Oils	1,92	4,35	4,18	53
Silk Mfrs including Yarn	1,46	1,56	1,11	1,07
Cotton Twist & Yarn	1,25	1,27	1,60	1,94
Paper & Pasteboard	96	1,64	1,28	1,47
Wool Manufacture	96	1,59	95	63
Hardware	87	1,04	84	75
Drugs & Medicine	80	94	90	1,17
Liquors	78	83	75	71
Rubber	76	78	60	77
Fruits & Vegetables	75	83	68	48
Chemicals	72	1,01	92	1,51
Precious Stones	67	99	94	71
Spices	66	52	60	88
Provisions & Oilman's Stores	66	74	70	78
Sugar	60	39	16	1,19
Glass & Glassware	50	63	49	42
Silk, raw	37	52	31	45
Haberdashery	33	37	25	24
Paints, etc	31	83	31	36
Leather & Leather goods	29	42	35	33
Starch, Dextrine & Farina	29	37	32	49
Cycles & Parts thereof	26	29	24	14

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# MARKET PLACES OF THE BOMBAY PRESIDY. 385

	1936-37	1937-38	1938-39	1939-40
	(in lakhs of rupees)			
Books, printed & printed matter	26	28	28	27
Apparel	26	35	20	18
Tallow & Stearine	24	27	22	25
Clocks & Watches	24	38	32	28
Stationery	23	28	21	21
Toilet Requisites	23	26	25	24
<b>Exports.</b>				
Hides & Skins, raw	240 41	363 81	217 92	427 22
Other Textiles, Mnfr	55 28	63 42	43 22	59 52
Metals & Ores	26 35	39 65	27 78	23 00
Cotton Mnfrs	24 53	24 27	24 62	25 61
Silk Mnfrs	23 59	21 22	16 62	13 55
Vehicles excluding, Locomotives	18 34	32 12	26 07	24 12
Fruits & Vegetables	12 13	11 09	5 14	4 91
Spices	8 52	10 95	2,99	6 78
Instruments & Apparatus	7 84	9 89	8 04	8 45
Wool Manufacture	5 99	5 38	5 97	6 34
Sugar, 23 DS	6 08	0 97	0 05	38 55
Hardware	5 91	8 46	9 28	7 05
Gums & Resins	5 11	4 25	4 27	4 62
Apparel	4 85	5 32	6 88	4 00
Machinery & Millwork	4 84	6 03	6 71	4 13
Cotton Twist & Yarn	0 56	0 62	6 40	2 07
Clocks & Watches	4 21	4 14	3 73	4 57
Haberdashery	4 28	5 19	4 65	3 33
Cotton, raw	1 44	1 64	7 44	0 31

## BOMBAY CITY.

BOMBAY, situated on an island in a bay, lies at the base of the Western Ghats. It is the second city in the Indian Empire and owes its wealth, size and importance to its magnificent harbour and its position as the nearest Indian port to Europe except Karachi. Bombay is connected by railway with every part of India. It is not only a great port but a great industrial centre also. It is about 1,400 miles away from Calcutta and about 800 miles from Madras.

As regards overseas trade, Bombay is connected by regular passenger and cargo services with Europe, Australia, East and South Africa, China, Japan and America and is also an important link in the transhipment trade between these countries and the sea-ports of Arabia and Mesopotamia. The trans-oceanic trade of Bombay has a valuable complement in the numerous steamer and sailing services plying along the Western coast. Bombay is the headquarters of these coasting services and of others which make a periodical round of the coastal ports between Bombay, Calcutta and Rangoon. Bombay is also the centre for the important pilgrim traffic between India and the Hedjaz— from 15 to 20 ships annually sail from Bombay with pilgrims during the season.

Bombay is a city which combines the textile specialisation of Manchester (without its imposing array of diverse modern industry) with the commercial and shipping characteristics of Liverpool. There are no less than 64 cotton mills in the Bombay City and Island, these are equipped with 27,90 lakhs of spindles and 65 lakhs of looms which produced in 1941-42 997 million yds of grey and bleached piece-goods and 309 million yds of coloured goods.

The Port of Bombay, which is a major port, is now under the direct supervision of the Government of India.

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**Foreign Trade of Bombay**—Chief imports into the port of Bombay are cotton, cotton goods, machinery, artificial silk, metals and ores, motor cars, etc. dyeing and tannin substances, instruments, oils, silk goods, cotton twist and yarn, paper, woollen goods, hardware, drugs and medicines, liquor, rubber, fruits and vegetables, chemicals, precious stones, provisions, spices, glass and glassware, raw silk, paints, leather, books, apparel, tallow, clocks and watches, stationery, toilet requisite, carriages and wagons, wood and timber, building and engineering materials, stationery, belting for machinery, grain, pulse and flour, raw wool, earthenware and porcelain, tobacco, toys and requisites for games, gums and resins, bobbins, tea, arms, ammunition, etc animal, living

**Exports**—The chief exports of Indian produce and manufactures from Bombay are cotton raw, seeds, cotton goods, oilcakes, grain, pulse and flour, wool raw, seeds, hides and skins, raw, cotton yarn, leather, oils, haberdashery, metals and ores, starch, brushes, cycle and parts, gums and resins, tobacco, myrobalans, spices, fruits, etc jewelry, manures, wool manufactures, dyeing and tannin substances excepting myrobalan, wood and timber, hemp raw, provisions

The following summarise the foreign and coasting trade of the port of Bombay during the last five years ending 1939-40 —

<b>Foreign Trade</b>					
	1935-36	1936-37	1937-38	1938-39	1939 40
<b>Imports:</b>			(in lakhs of rupees)		
*Merchandise	55.02	49.82	73.99	60.42	67.14
Treasure	6.79	12.99	2.58	1.68	—
	61.81	62.81	76.57	62.10	67.14
<b>Exports</b>					
*Merchandise	33.03	44.25	39.91	36.29	42.50
Treasure	44.22	29.47	18.43	12.48	—
	77.25	73.72	58.34	48.77	42.59
<b>Coasting Trade.</b>					
	1935-36	1936-37	1937-38	1938-39	1939 40
<b>Imports</b>			(in lakhs of rupees)		
*Merchandise	18.29	19.69	15.27	14.47	12.67
Treasure	24	11	15	18	—
	18.53	19.80	15.43	14.65	12.67
<b>Exports</b>					
*Merchandise	23.53	24.20	21.81	20.79	17.91
Treasure	3	7	10	9	—
	23.56	24.27	21.91	20.88	17.91

\*Including Government Stores

#### SUBORDINATE PORTS OF THE BOMBAY PRESIDENCY

The trade of the subordinate ports with foreign countries is comparatively insignificant, and is carried on in country craft mainly via Bombay. The total value of the trade rose from Rs 44 lakhs to Rs 45 lakhs, imports from Rs 34.1 lakhs to Rs 34.85 lakhs and exports from Rs 9.9 lakhs to Rs 10.75 lakhs. The main articles of imports were rice (Rs 33 lakhs), and cashewnuts (Rs 1.63 lakhs) while chief exports were cotton raw (Rs 6.57 lakhs) and cashew kernels (Rs 3.71 lakhs). Exports of oils, chiefly cashew nut oils to the United States of America were valued at Rs 24,332 as against Rs 1,555 last year.

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## MARKET PLACES OF THE BOMBAY PRESIDY. 387

Total value of the coasting trade of the subordinate ports decreased from Rs 5.92 crores to Rs 5.43 crores. Imports fell from 2.91 crores to Rs 2.80 crores but exports by Rs 38 lakhs to Rs 2.63 crores. About 50 p.c. of the total trade of the subordinate ports is with the chief port Bombay.

The principal articles exported from the four principal ranges are spices (betelnuts), dried fruits, and wood from Kanara, salt, rice, bricks and myrobalans from Kolaba, rice, sal wood and bricks from Thana; and cotton raw, cotton seed, pulse, ghee, and wood from Surat.

The following summarise the foreign and coasting trade of the subordinate ports of the province of Bombay during the last five years.

	1935-36	1936-37	1937-38	1938-39	1939-40
<b>Foreign Trade</b>			(in 1,000 rupees)		
Imports	3.47	4.96	8.75	3.41	34.85
Exports	52.16	14.93	20.58	9.90	10.75
<b>Coasting Trade</b>			(in lakhs of rupees)		
Imports	3.67	3.64	2.93	2.91	2.80
Exports	2.25	2.54	2.81	3.01	2.63
<b>Total</b>	<b>5.92</b>	<b>6.18</b>	<b>5.74</b>	<b>5.92</b>	<b>5.43</b>

Shares of the important subordinate ports in the total coasting trade during 1937-38, 1938-39 and 1939-40.—

	1937-38	1938-39	1939-40
	(in 1,000 rupees)		
Ratnagiri	74.43	59.05	59.39
Broach	45.68	86.46	69.77
Karanj	38.87	35.96	33.98
Dabhol	33.84	41.82	35.54
Uran	33.68	30.73	32.39
Honawar	29.94	26.70	27.00
Malwan	29.85	31.03	32.97
Bhandup	28.08	22.57	18.76
Bankot	27.58	29.54	26.14
Vengurla	27.04	29.61	27.90
Surat	22.42	34.63	28.90
Sanikatta	22.32	19.45	18.62
Revdanda	21.89	21.85	20.05
Belapur	20.75	19.58	12.71
Jaitapur	20.46	20.58	21.09
Karwar	15.67	15.47	13.97
Dharsana	14.74	14.66	13.95
Trombay	10.48	8.75	9.18
Bassein	10.09	10.55	8.04
Other Taluks	41.01	39.50	32.62
<b>Total</b>	<b>5.73.80</b>	<b>5.92.12</b>	<b>5.42.96</b>

The principal commodities figuring the coastal trade during 1939-40 under imports and exports are—

Imports (in Rs 1,000)—Coconuts (7.80), pulses (6.04), paddy (8.29), rice (5.67), wheat flour (5.10), iron and steel (3.98), kerosene (17.72), coconut oil (6.82), ghee (3.64), salt (9.51), sugar 16 D S (41.36), tea (5.04), cotton piecegoods, grey (3.25), do., coloured printed or dyed (6.75), gunny bags (4.97), other articles (1.44), total (2,79,51).

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**Exports** (in Rs 1,000)—Bricks and tiles (8,64), fresh fruits (8,92), fruits dried (8,46), pulse (8,93), paddy (17,94), rice (15,83), salt (36,62), cotton seed (10,30), groundnut (3,78), betelnuts (17,37), molasses (8,95), cotton raw (37,73), teak wood (9,38), other articles (70,59), total (2,63,44)

### AHMEDABAD DISTRICT.

The AHMEDABAD district covers an area of 3,819 sq miles and has a population of 923,431

The principal industry of the district is the spinning and weaving of cotton yarn. Ahmedabad city is at present second only to Bombay as a centre of the manufacture of cotton yarn and cloth. There are 76 cotton mills, commanding 18,98,530 spindles and 46,278 looms and employing 73,387 operatives.

Dyeworks, metal factories, match factory, oil mills represent the industries of the district. The important centres of trade are AHMEDABAD (323,388), VIRAMGAM (18,965), DHOLKA (13,743), DHANDHUKA (9,076), MADASA, (8,819), PRANTIJ (6,467), SANAND (7,319), and MANDAL (5,373). AHMEDABAD is a market for Bengal and Ahmedabad silk and the products are exported to Kathiawar, Rajputana, Central India, Nagpur and certain other places.

The manufactures include copper and brassware, shoes, blankets, etc. Manufacture of silk and brocaded goods is also an important industry. Locally produced silk goods find market in different parts of India. The manufacture of gold and silver thread supports a considerable number of people. Tin and electroplating are also carried on to some extent. Many families are engaged as handloom weavers working up cotton cloth. Black-wood carving is another important industry. The common pottery of this place is also decidedly superior. The manufacture of shoes and leather-work gives employment to a large number of people.

**Fairs**—In DASKROI TALUK (including City Mahal)—Ahmedabad Swaminarayan Temple, Sud 9th of Chaitra, one day, Sud 11th to 15th Kartik, 5 days, Sarkhej, one day, Shahpur, Ahmedabad, 2 days. Shah Alam Roza, near Dani Limba, 2 days, Vastral, Vad 8th Shriavan, one day, Vatwa, Sud 8th Bhadrpad, one day, Pirana, Sud 8th Bhadrpad, one day, and Sud 1st Asvin, one day; Jetapur, Sud 15th Bhadrpad, one day, Isanpur, Sud 14th Asvin, one day. Ghodasai, Sud 14th Asvin one day. In DHOLKA TALUK—Vautha, Kartiki Sud 11th to 15th Bhadrpad, 3 days, Bhimnath 15th Sud Shriavan, one day, 13th Vad Maha, one day, 14th Vad Shriavan to Sud 2nd Bhadrpad, 4 days, Tagdi, Sud 9th Kartik, one day, Dholera Sud 11th Bhadrpad, one day. In GOGHO TALUK—Kharakdi 3 days. In VIRAMGAM TALUK—Kadwasan, 14th Vad Maha, one day, Bhoini, Sud 15th Kartik one day, Detroj, Sud 10th Maha one day and Sud 15th Chaitra, one day, Hansalpur Saraspur, each Monday of Shriavan, one day; Gadia, Vad 14th Maha, one day. In PRANTIJ TALUK—Ghadi 2 days.

### AHMEDNAGAR DISTRICT

The AHMEDNAGAR district (area 6,586 sq miles, population, 987,949) has an average annual rainfall of 24 in.

Staple crops are jowar, wheat and gram, which are grown on the banks of the Godavari and the Bhima. Vari and ragi are grown in the Akola taluks. Tur, math, kulth and cotton are grown in the eastern portion. Safflower, sesamum and linseed are also grown besides sugarcane, tobacco, betel leaf and vegetables to a small extent.

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## MARKET PLACES OF THE BOMBAY PRESIDY. 389

There are about 1,000 sq miles of the reserve forest which yield excellent teaks used as rafters and poles Banjan, jambul, behra, am and karvand trees are also available Limestone is abundantly obtained.

The industries of the district constitute weaving of saris and turbans, copper and brass pots, paper making and carpet making

**AHMEDNAGAR CITY**—It is the head quarter town and has a population of 41,890 and contains a cantonment with a population of 15,639. There is a carpet factory and a weaving institute The industries of the town are sari-weaving and making of copper and brass vessels

Other centres of trade are **SANGAMNER**, (15,355), **KOPARGAON** (7,128), **PATHARDI** (6,335), **SHRIGONDA** (6,331), and **BELAPUR** (5,482)

### BELGAUM DISTRICT.

**BELGAUM** district has a population of 1,078,561 Its area is about 4,649 sq miles

Grains, pulses, oil-seeds, cotton are cultivated Ginger is grown in garden lands, chiefly for domestic consumption.

**BELGAUM**, the Sadar station, is a municipality and has a population of more than 40,000 The town has a booming trade Trade in silk and cloth (cotton) is also considerable It exports agricultural products, rice, jaggery, tobacco and cotton in large quantities and imports cloth, silk, salt and grain. Next to agriculture, handloom weaving constitutes the principal industry of the district.

**GOKAK** (10,000)—There is one cotton mill near Gokak Falls. The town is a centre for the manufacture of toys.

**KHANAPUR**—Bamboos, banians, tamarinds and mangoes abound in the surrounding forests. The articles of trade are dried fish, dates, corn, coconuts (from the port of Vengurla), all sorts of grains, sugar and molasses.

**GHODGERI**—Glass bangles are made locally on a large scale, the annual production being about 72 lakhs of pairs.

**HONGAL**—(10,000)—Coarse cotton cloth is woven here and sold in the neighbouring market; or, are exported via Belgaum to Konkan. The place is noted for superior bullocks which are brought for sale in the markets

**KONGUALI**—The town has a big trade in rice with Belgaum and other places of Kolhapur. Saris and waist cloth and blankets are woven

**MANOLI**—It is a centre for printing cotton cloths, and was once famous for dyeing industry

**MURGOD**—It is also a good market for cotton and grains It has also a cottage industry of printing cotton cloth.

**NANDGARH**—It is also an important trade centre It imports arecanuts, coconuts, coconut oil and dates from Goa.

**NIPANI** (population 12,000). Crowded weekly markets are held here on Thursdays where about 2,000 to 3,000 cattle are offered for sale Beedi tobacco is prepared on a large scale here It is the biggest tobacco market in the Bombay Presidency about 37 million lbs. of tobacco being sold there per annum The tobacco is usually despatched in gunny covers containing about 252 lbs each to Calcutta, Central Provinces, Madras and Coast markets

**SADALGI**—Coarse cotton cloths, worsted blankets and womens' saris are woven here Molasses and sugar making by the indigenous process are the chief industries Grains and pulses are imported.

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**SANKHESWAR**—Traffic is carried on in cotton, dry coconuts, dates, spices and curry stuffs. Cotton-ginning and pressing is the chief industry.

**YAMAKANMARDI** (population 5,000)—There are more than 300 hand looms for making saris, blankets etc.

**Fairs:** A fair is held at Saundatti-Yellamma during full moon of April-May and again in November-December. Many fancy articles and idols are sold in these melas. More than 1 lakh of pilgrims assemble here. An annual fair is held at Kodchi at the tomb of a Mahomedan Fakir, another at Murgad in March 6 days duration.

#### **BIJAPUR DISTRICT.**

The district has an area of about 5,707 sq miles and a population of 975,987. It speaks Kanarese.

Crops grown in the district include jowar, cotton, bajra, wheat, rice, 1ale kang or the Indian millet. Pulses, e.g., tur, gram, kulith, mung, math are also grown. Castor seed, linseed, safflower and sesamum are also grown here.

Cotton and silk cloth are the chief manufactures of the district where weaving is a most popular industry.

Chief imports into this district are piece-goods and rice from Sholapur, coconuts and salt are brought from the coasts, betelnuts and spices are brought from Kanara and molasses are imported from Belgaum.

Chief exports comprise of cotton yarn, cotton cloth, copper wares, coarse woollen blankets, cattle and coast produce.

**AMINGAD**—It has a large cattle market and is a trade centre for rice and coconuts brought from the sea coast.

**BAGALKOT**—The town manufactures silk and cotton goods and there are many cotton ginning and pressing factories.

**BIJAPUR** (population 48,968)—The town has a large grain and cattle trade. There are several cotton ginning and pressing factories. The town is a centre of cotton trade in the Deccan.

**GULEDGAD** has a good trade in the agricultural products besides cotton, its chief article of trade. Cotton and silk cloths are manufactured here and sent to Sholapur, Poona, Konkan and Bombay. There are several valuable quarries whence stone is dug up.

**ILKAL** is a centre of weaving and dyeing industries. It exports silk and cotton manufactures and agricultural produce (grains, pulses, wheat, etc). Cotton cloth and saris are sent to Sholapur, Poona, Belgaum and the Nizam's Dominions.

**TALIKOT** has an industry in superior carpets.

**Fairs**—A yearly fair at Ilkal on the full moon day of Poush (January). An annual fair is held at Talikot during March-April in which many fancy things are sold.

#### **BROACH DISTRICT.**

The district of BROACH has an area of 1,543 sq miles, and a population of 334,001 and the language spoken here is Gujarati.

The chief exports are cotton and cotton seeds. The chief imports are grains, sugar, iron and jaggery.

**BROACH** (41,341) is one of the oldest sea ports of Western India. The exports consist of grain, pulses, cotton, mohua flowers, tiles and fire wood, and imports of fruits, stone for building purposes. There are five cotton spinning and weaving mills at Broach. There is considerable coastal traffic, the total coastal trade being valued at Rs 69,77,000 during 1939-40.

**PALEJ TOWN** (3,193)—It has got 5 ginning and pressing factories and is a centre of cotton trade. Main exports are cotton (ginned) and cotton seeds.

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ANKLESWAR (population 12,000).—The chief article of trade of this place is cotton. There are also several ginning and pressing factories. Trade in raffers is also considerable. Bamboos are also imported.

WAGRA TOWN. There is one ginning factory here.

JAMBUSAR (11,734). There are nine ginning factories.

Other trade centres in Jambusar Taluk are KAVI, SAROD, TANKARI and KORA.

PANCH MAHALS Sub-divisions, surface, its area is 1,006 sq miles with a population of 4,54,393. Chief crops of this sub-division are maize, groundnut, paddy, cotton, bajri, sesame, tur etc. There are manganese mines in SHIVRAJPUR and BAMANKUVA in HALOL MAHAL. Good and silver mines in 3,356 acres and 23 gunthas of land in VAYDI-BUJRAG and BAMROLI KHURD villages are recently leased for 30 years. Timiu leaves now-a-days are the main exports. Chief industries are husking of groundnuts and extracting oil from groundnut seeds. There is also a glass factory at SANTROAD in Godhar Taluka. The chief exports are grain, mohua, timber, oil-seed and forest produce. The imports are (from Guziat) salt, tobacco, coconuts, hardware, cloths and timber (from Barava and Binjari).

DOHAD is a granary. Other centres of trade are GODHRA (35,110), HALOL (5,394), KALOL (6,700), JHALOD (3,521) AMOD (6,600), and VAGRA.

B B & C I Railway crosses the district which has good roads, connecting it with Guziat.

#### DHARWAR DISTRICT.

The district of DHARWAR has an area of about 4,604 sq miles and a population of 11,29,000. It speaks Kanarese.

Some 20 or 25 years ago, a gold mine was operating in this area and worked successfully for some time. The place is still rich in gold. Medical herbs are gathered from the hill sides.

Agricultural crops include potato, groundnut and soyabean. Cotton grown here is of the best quality and vies with those of Suat and Bioach in quality, it is both indigenous and exotic. Sugarcane and chillies are also extensively cultivated.

Silk cloth, fine cotton carpets and household utensils and ornaments are manufactured at NAVALGUND, glass bangles are made at DHARWAR. There are one up-to-date cotton mill and several ginning and pressing factories and one oil-mill in this district.

The district imports European goods, chillies, coconuts, molasses and betelnuts from Kanara and Mysore districts. The chief exports of the districts are cotton and cotton manufactures, grains, bangles and carpets. Besides this local trade in jowar and other agricultural products is also considerable.

The important trade centres of the district are HUBLI and DHARWAR in the west, NAVALGUND in the north, GADAG in the east and RANIBENNUR in the south.

ANNIGERI (population about 9,000) has a considerable trade in grains and cotton. It has a large weekly market, where agricultural products, foreign manufactured goods and oil are sold. There are 4 ginning factories. An annual fair is held in October and November.

BANKAPUR (population about 7,000).—A weekly market is held here every Tuesday where coarse cloth, blankets, oils and metal vessels are sold in large quantities. There is a big cattle breeding farm.

BYADGI (population about 6,000).—A weekly market is held here on Saturdays where rice, molasses, groceries and chillies are generally sold.

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**DHARWAR town** The exports include cotton, timber and grains and pulses. Rice is also exported. Metals are imported and vessels made of them are sold in and outside the district. There is no important manufacturing industry except the jail industries of carpet, cloth and cane articles.

**GADAG** (population 33,000) —It is a flourishing town. It has an important trade in raw cotton and silk fabrics. This is the main cotton mart of the district. There is one cotton mill here. A very big cattle fair is held every year in the beginning of June at **SHIRHATI** where thousands of excellent bulls from far distant places come for sale. The fair lasts for 10 days.

**HAVERI** (population 9,000) —It has a considerable trade in cotton, cardamoms and other spices. Melas are frequent. A cattle fair is held at **Hosritte** in the beginning of February, each year.

**HUBLI CITY**—This is the biggest town in the district. It has a population of about 69,000. It is a centre of cotton trade not only in this district but also in the whole of Southern Mahratta country. There are 2 cotton mills and several cotton ginning and pressing factories in the town. Trade is conducted in raw cotton, cotton and silk fabrics, copper vessels, grain, salt and other commodities.

**HEBSUR**—Country carpets are produced on a large scale.

**NAREGAL**—Grains, pulses, spices and wheat are sold.

**NARGUND**—Merchants from Dharwar and South Kanara, come here and purchase rice, sugar, spices and other agricultural products. It is one of the biggest cotton centres of the district. There are 9 ginning and pressing factories. An annual fair is held on the full moon day of **Aswin** in honour of **God Venkateshwar**.

**NAVALGUND** is noted for the production of excellent cotton carpets. Cattle of a superior breed and appearance is the special feature of the place.

**RANNIBENNUR** is a thriving town. It has a considerable trade in raw cotton and the place is noted for the excellence of cotton and silk fabric. The surrounding country has many sheep. A big cattle fair is held every year in the month of October.

**YAMNUR** is a small village having an annual fair.

### EAST KHANDESH DISTRICT.

The **EAST KHANDESH** district lies in the Central Division of the Bombay Province and the population in 1941 was 13,29,613. The soil is extraordinarily fertile, especially in the plain near the **Tapti River**.

The **Satpura** ranges abound in excellent bamboos, grass and timber. The district grows cotton and groundnut in large quantities also jowar, bajra, wheat, sesamum, tur, etc.

There are 5 cotton spinning and weaving mills, about 120 cotton gins and 45 oil mills. Minor industries are carried on at the following 10 places —

Ice at **BHUSAWAL**, **JALGAON**, **FAIZPUR**, Iron implements at **PACHORA**, Matches at **CHALISGAON**, Hand-loom weaving at **ERANDOL**, **PAROLA**, **NASIRABAD**, **FAIZPUR**, **CHOPDA**, **PIMPARALA TALUKA**, **JALGAON**, Cotton carpets at **KASODA** and **PALDHI**, **TALUKA**, **ERANDOL**, Dyeing at **FAIZPUR**, **TALUKA**, **YAWAL**, Hosiery at **BHUSAWAL** and **JALGAON**, Tannery at **BHUSAWAL**, Paper at **ERANDOL**. Glass bangles at **NASIRABAD** and **EDLABAD**.

The principal trade centres are **JALGAON** and **AMALNER**.

**JALGAON** (population 48,596) It is a town of growing importance and is the centre of trade for the District.

## MARKET PLACES OF THE BOMBAY PRESIDENCY. 393

**AMALNER** (population 34,694) It is a centre of local trade in grain and cotton, and has a large cotton weaving mill to which it owes most of its importance.

A modern factory, known as the "Bhaiat Vanaspati Products Ltd. Pachora" is already started at PACHORA for production of finished vegetable oils

The chief exports of the district are cotton and groundnuts (or groundnut oil) Linseed and sesamum are also exported in small quantities

**Fairs**.—Agricultural exhibitions are now-a-days held in different parts of the district by the Taluka development associations at the village fairs and sometimes at the time of Taluka Jamabandi.

The only big fair in the District is held at Amalner in May every year in honour of Sakharam Bhova There are also fairly big fairs held at Shengoda Taluka Jamner and Mahej Taluka Pachora

There is an important weekly cattle market at JAMTHI on the borders of Berar

### KAIRA DISTRICT.

KAIRA has an area of about 1,695 sq miles and its population is 7,39,490

The chief crops are bajra, kodra, rice, jowar and wheat; cotton is also grown Finest tobacco in India is grown here in NADIAD, BOR SAD and ANAND taluks The district is noted for its clarified butter or ghee which is exported largely The traffic is by rail and road

There are metal quarries at SEVALIA, which supply metal in large quantities to various bodies Cotton is now grown over a large area of the Taluka

Hand spinning for Nadiad and Ahmedabad mills is carried on Soap and glass are manufactured at KAPADWANJ. Glass bangles are made on a large scale in KAPADWANJ, ANAND and CHIKHODRA are the chief centres of tobacco preparation Snuff from ANAND and Bidia from ANAND and CHIKHODRA are exported on a large scale.

NADIAD TOWN, is a big market for tobacco, ghee, cotton, leather and sugar There is one spinning mill The chief exports from the town are cotton prints, grain, tobacco, butter, oil and mohua flowers; the imports are grocery, piece-goods, molasses and dyestuffs

MEHMEDABAD is a town with a population of 3,648 souls The chief export is ghee

KAPADWANJ—Ground-nut oil is pressed in the local oil mills and exported thence

ANAND—There is Polson's Dairy at Anand which is a great cream and butter producing concern

THASRA—Washing soap is prepared Oils are exported all over India

### KANARA DISTRICT.

KANARA (3945 sq miles) has a population of 4,17,835. The district stretches for about 76 miles along the coast of the Arabian sea

The principal crops are rice, ragi, pulses (mung and urid) sugarcane, coconut, arecanut, cardamom, pepper, betel-leaf etc The district is not self-supporting in food-stuffs There are some manganese quarries in SUPA PETHA and HALIYAL TALUKA.

The chief importance of the district lies in its forest produce. There are large timber depots at KODIBAG in KARWAR TALUKA and HATTIKERI in ANKOLA TALUKA along the coast and timber is exported by sea The small ports in this district are KARWAR.

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**KUMTA, TADRI, HONAVAR and GHATKAL** The ports send away timber, coconut, spices and fish. The chief imports are rice, piece-goods, metals, tea and sugar.

**KARWAR** Once an important seat of commerce, KARWAR is the only safe harbour between Bombay and Cochin. It lies some 50 miles south-east of Goa and 203 miles south-east of Bombay and is the Sadar station of the district. Many European civil and military officers visit the place for a holiday, in addition to many tourists.

**GOKARN** An annual fair is held here during the Maha Shivratri festival. The place is the seat of Shiva (Mahabaleshwar) and has been mentioned in the Ramayana and Mahabharata. Hindus from all over India visit it for pilgrimage.

**SANIKATTA** Salt to the extent of 1 lakh maunds is manufactured every year by the Salt Owners Society from sea water.

**SIDDAPUR** The world famous Jog (Gersoppa) Falls lies at a distance of 12 miles from this town. Accommodation is available for tourists in the British Bungalow and Mysore Bungalow situated on both sides of the river.

**SIRSI** It is an export centre for cardamom, pepper and betel nut. The M & S M Railway Feeder Motor Service has recently been facilitating its trade with Hubli, Haveri, etc. Sandalwood is a valuable article of export. It brings a large income to the Forest Department.

**BANVASI** It is a village to the south-east of Sursi at a distance of 15 miles on the bank of the Vardha river. The Banvasi temple dedicated to Shiva (Madhukeshwara) is known for the architecture on the stone building. It is a historical place.

**HALIYAL** There is a large timber depot at Alnavar Railway Station in Dhavwar Districts 7 miles from here.

**ULVI** An annual fair is held here in February, where many pilgrims assemble. ULVI is an important pilgrimage centre for the Lingayat community. It is 30 miles from Supa and 46 miles from Londa, a M & S M Railway station.

**CASTLE-ROCK** It is an important British Indian land customs station. The Goa frontier lies only 3 miles away.

### KOLABA DISTRICT

The district of KOLABA occupies some 2,131 sq miles in area in the southern division of Bombay and contains a population of 6,68,922.

Rice is cultivated here widely. Val, urid, tur, mung and pulses are grown here. Sesamum and niger seed are the chief oil seeds. Sunn hemp, betel leaf and pine-apple are also largely grown and these have a good trade within and outside the district. The chief manufacture of the district is distillation of wine and spirits from rice and mohua.

**ALIBAG** (population 6,526) —It is the headquarters of the district and only 19 miles south of Bombay. The town is practically covered with a forest of coconut trees. There are many mango gardens, the town has a roaring trade in mangoes and coconut.

**KARANJA**—Rice is the chief crop. Liquor from mohua, and salt are produced here in abundance and are chiefly exported in large quantities. Fishing is a great industry, fishes are sent to Bombay chiefly. The salt works of the place present a curious sight to the observer. It is a port of some importance handling good coasting trade though it does hardly any foreign trade. The principal imports at this port are cotton manufactures, gunny bags, petroleum, kerosene, flour, coconuts, sesamum oil, coconut-kernel, and pulses. The chief exports are paddy, fodder, bran and pollard, cleaned rice, salt, etc.

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Coastal trade during 1940-41 valued at Rs 31,00,000 as against Rs 33,98,000 in 1939-40

**MAHAD TOWN** (population 8,150).—It imports salted and fresh fishes from Malabar, Goa and Konkan coasts Onions, garlic, potatoes, sugar and myrobalans are also exported

**MATHERAN** (population 2,774)—Owing to its healthy climate during summer, people flock to this place from Bombay and adjoining districts

**PANVEL TOWN** (population 10,960)—It imports grains, fishes, liquors, gunny bags, mohua flower, coconuts, and timber, and exports grains, ghee, firewood from the adjoining jungles Lubricating oils for wheels and axles as also oil-seeds are also exported Cart-wheel making is the chief local industry Bricks are also made here.

**PENTOWN** (population 7,317)—Both the imports and exports amount to about Rs 4 lakhs separately

**ROHATOWN** (population 6,015) is a great rice market for supplying the whole demand of Bombay town

**URAN** (population 5,794)—Exports and imports amount to about Rs 32 lakhs The seaborne trade however is coastal The principal imports are gunny bags, coloured piece-goods, rice, sesamum oil, manufactured goods, kerosene oil, and sugar The chief exports are salt, bricks, tiles and paddy.

**REYDANDA**—It is an important port with considerable coasting traffic It imports piece-goods, sesamum oil, chillies, sugar, pulses, flour, petroleum, copra, gunny bags, etc Exports fish, coconuts, paddy, cleaned rice, copper wrought, betelnuts, teak wood and timber, firewood Coastal trade was valued at Rs 14 lakhs during 1940-41 as against Rs 20 lakhs in 1939-40

The chief exports of the district are rice, salt, firewood, grass, timber, vegetables, fruit and dried fish Imports consist of Malabar teak, brass pots, dates, grains, piece-goods oil, butter, garlic, potatoes, turmeric, sugar and molasses Foreign trade is insignificant

**KHANDERI** and **KUDA** are the other important places in the district

**Fair**.—An annual fair is held at **CHAUL** (population 6,888) and many people assemble there to make their purchases

#### NASIK DISTRICT

The area of the district is 5,850 sq miles and population 1,015,521. Average annual rainfall is about 29" at Nasik town and 133" at Igatpuri.

The chief crops grown are the bajra, wheat (southern Taluks), jowar, rice, nagli, kulthi, gram and tur Linseed and Khuvasin (niger seed) are largely cultivated Cotton is grown in **MALEGAON**, **KALYAN**, **YEOLA**, **NANDGAON**, **BAGLAN** and some parts of **CHANDOR** and **SINNAR** Tobacco is grown at **DINDORI**, **NIPHAD**, **SINNAR**, part of **CHANDOR** and **NANDGAON**

The district is famous for its grapes which are sent to Bombay daily in large quantity during hot season every year.

Good building stone is found, cotton and silk goods are woven chiefly at **YEOLA** and sent to Bombay, Poona, Satara and Sholapur. Silk industry is important, the centre of the industry being at **MALEGAON** There are 2 beedi manufacturing factories at **SINNAR** and the beedies are sent to Bera, East and West Khandesh. Cotton cloth is produced at **SINNAR** and **VENCHUR**

The chief articles of export are grains, oil-seeds, molasses, cotton goods, silk goods, sunn hemp, copper, brass and silver ware There is a prominent market at **LASALGAON** where large quantities of wheat

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are brought by merchants. The garden products, onions, garlic and betel leaves are also largely exported.

There is betel leaf cultivation in the Nasik district. There are 800 gardens at VADNER, 125 at VADALIBHOI, 165 at DHODAMBE, not far from Chandor on the Bombay-Agra Road. The annual exports of betel leaves are valued at Rs 3,000 to Nasik, Rs 30,000 to Bombay, Rs 20,000 to Berar and Rs 2,000 to Dhulia.

NASIK (population 48,793). Copper, brass and silver vessels are manufactured and sent to Bombay, Poona, etc.

CHANDOR TALUK—There are 3 important industries, namely, betel leaf industry, preparing dining plates with leaves of palas trees and weaving. Betel leaf industry is carried on in the centres referred to above. Dining plates are made at VADNER, 1000 people being engaged in the line. These are exported to Nasik and Dhulia. More than 300 looms are at work in CHANDOR. The output is sold at LOSALGAON, MANMAD and MALEGAON.

Weekly markets are held at every town and large villages. The chief centres of local trade are IGATPURI (9,627), NASIK, LASALGAON, NANDGAON (9,540), MANMAD (12,263), and YEOLA (16,751) and PIMPALGAON, CHANDOR, MALEGAON (32,462), and SINNAR (10,773), situated on G I P Rly, and B B & C I Rlys.

Fairs.—Important fairs are Bhanwad, Paush Shud 15, 7 days, Khedgaon, Magh Shud 15, 1 day, Vani, Chaitra Shud 15, 15 days, Shindwad, Chaitra Shud 15, 2 days, Jopul, Nasik, Chaitra Shud 15, 1 day, Lakhamapur, Nasik, Margashirsha Shud 15, 1 day, Ambegaon, Nasik, Chaitra Shud 15, 1 day, Awankhed, Nasik, Chaitra Shud 15, 2 days, Krishnagaon, Nasik, Margashirsha Vadya, 4, 1 day, Chandepuri, Malegaon, Poush 15, 6 days, Chandor, Poush Shudha 1, 3 days, Vadner, Chaitra Shud 14, Chandor, Chaitra Shud 15, Shri Matoba fair at Naitale, Poush Purnima day, 15 days, Trimbak, Paush Vad, 11.

### POONA DISTRICT

The POONA district has an area of 5,349 sq miles and has a population of 12,33,528.

Chief crops are bajra, jowar, rice, niger seeds, groundnuts, safflower, wheat, tur, math, kulith, mung, sugarcane, etc. Fruits and vegetables include grapes, figs, papayas, guavas, oranges, etc.

The chief industry is silk, coarse cotton and blanket weaving. Toys, pugris, small clay figures, baskets, furs, etc., are also manufactured. The cotton and silk embroidered pugries of POONA have a wide reputation. Brass and silver-work of POONA are also well-known and have a good name.

There are one cotton spinning and weaving mill, paper mills, flour mills and a brewery. KIRKEE (population 16,302) has an arms and ammunition factory.

The exports are raw sugar, grains, cloths, vegetables, fruits, brassware and silk cloth. The imports are rice, wheat, salt, copper and brass sheets. Markets, fairs and village shops in tahsils are the centres of trade.

POONA (population 250,187)—Vegetables form an important market-garden crop near Poona, as also do grapes, figs, papayas, guavas, oranges, and other favourite fruits. Among special crops, the grape vine is occasionally grown in the vast garden land in the neighbourhood of the city.

Other centres of trade are BARMATI (14,170), INDAPUR (7,045), JUNNER (8,421) and LONAVALA (10,694).

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The district has a good supply of metalled road (1,135 miles and railway—(G I P and S M) and has connections by road with Nasik, Ahmednagar, Sholapur, Belgaum, Satara and Kolaba Districts

#### RATNAGIRI DISTRICT

The RATNAGIRI district (4,000 sq miles) has a population of 13,01,694

Neither wheat nor cotton is grown in the district. The agricultural crops reaped include rice, kulith, and pulses. Alphonso mangoes of various grades are grown and are much prized all over India. Niger seeds, chillies, sunn hemp, coconuts and arecanuts are the other crops.

Graft mangoes are exported to Bombay from all the Taluks and Pethas except the Taluka of Khed, Chiplun and Sangameshwar, the chief exporting ports being Vengurla, Malwan, Achra, Deogad, Vijayadurg, Jaitapur, Pawas, Ratnagiri, Jaigad, Dabhol, Harnai, and Bankot. Mango slices for pickles also exported. The trade of Alphonso mangoes with up-ghat countries is small.

Other exports comprise of betelnuts, myrobalans, sugarcane, kokamsal (sunn hemp), catechu, salted fish, coconuts.

Cashewnut baking and shelling industry is carried on in MALWAN and VENGURLA. Raw cashewnuts are imported from Africa for making in addition to those purchased locally.

There were 772 handlooms working in the district during the year 1938 and total output of cloth was Rs 1,26,000.

At SHIRODA in Vengurla Peta there are Government salt pans and salt is manufactured.

Fishing is carried on in almost all the coast villages. Fish is exported to Bombay only from Deogad and Malwan Taluks. In almost all ports there are fish-curing vards and fish is salted there.

CHIPLUN (population 13,056)—The trade of the place is also considerable. Value of exports from the place averages about Rs 15 lakhs and value of imports averages about Rs 17 lakhs.

DAPOLI—It is another centre though small and has a good trade in agricultural crops.

HARNAI—The trade of the port is small but fishing is brisk here during season.

JAIGARH is another port of smaller importance. It exports about Rs 5 lakhs worth of molasses and firewood and imports about Rs 7 lakhs worth of rice and salt.

KHED VILLAGE—A good cart-road connects it with the port of Harnai and a brisk trade passes along that road.

MALVAN TOWN (population 29,817)—Iron ore of a very good quality is obtainable in the neighbourhood of the town. Figures of foreign imports and exports follow—

	1933-34	1934-35	1935-36	1936-37	1937-38
			(in 1,000 rupees)		
Imports	1.55	2.21	8.70	7.07	9.14
Exports	5.51	5.17	9.97	4.11	7.18

The chief imports of Indian produce and manufactures consist of dried fruits and vegetables, gram, pulse, paddy, cleaned rice, petroleum oil, coconut tea, coloured, printed or dyed piecegoods, etc. Chief foreign stuff imported were sugar, dried fruits, kerosene oil. The exports are dry salted fish, coconuts, fruits and vegetables, fresh fruits and vegetables, dried, raw hemp, gunny bags, and manufactured goods. Coastal trade during 1939-40 was valued at Rs 32,97,000.

MASURA (population 9,000) is one of the chief marts of Western India for agricultural products and coconuts.

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## 398, INDUSTRY YEAR BOOK & DIRECTORY, 1943

**RAJAPUR** (population 4,214) —Value of export and import of the place averages Rs 2 lakhs each. There are hot springs which are frequented by rheumatic patients. Fairs are held here twice a year and are visited by numerous people who make many purchases for their own use.

**RATNAGIRI TOWN** (population 23,906) —It is the head-quarter station of the district. It stands facing the sea. It has a fishery on the sea coast where sardines are trapped during January and February. It imports salt, timber, catechu and grains and exports chiefly fuel, fish and bamboos from the adjoining forests and jungles. Value of coastal imports and exports during 1939-40.

**SANGAMESHWAR TOWN** has a good trade in grains, piece-goods, salt and fish, which are mostly exported.

**VENGURLA TOWN** (population 20,153) It is a prospering and rising port and serves the adjoining country. The principal imports consists of Fresh vegetables, dried fruits and vegetables, gram, pulses, rice, wheat, kerosene, coconut oil, piecegoods, etc. Exports of the port mainly consist of Myrobalans, coconuts, dried fruits and vegetables, coconut oil, cotton seed, sugar, tobacco (unmanufactured) and manufactures of wood. Value of coastal imports and exports during 1939-40 was Rs 28 lakhs.

Figures of foreign trade follow —

	1933-34	1934-35	1935-36	1936-37	1937-38
			(in 1,000 rupees)		
Imports	45	83	71	1,21	4,08
Exports	1,64	1,25	1,00	2,48	52

**VIJAYADURG** —The imports to the place average about Rs 2 lakhs and exports average about Rs 7 lakhs. There is a good local industry. The carpenters of the place make very decent ornaments from Bison horns, which are largely imported here.

**BANKOT** is an important port in the district. Coastal trade during 1939-40 was valued at Rs 26,14,000.

**JALTAPUR**, a port has a fairly considerable trade. Coastal trade were valued at Rs 21 lakhs during 1939-40.

**Fair**.—A mela is held at Sanswesar Town during January and February, where many people assemble and make their purchases.

### SATARA DISTRICT

The SATARA district possesses an area of (5,033) sq miles and is peopled by 13,27,249 persons. Population of KARAD TALUK 166,214, that of TASGAON TALUK 1,10,609 and that of WALWA TALUK 1,47,615.

The crops grown are jowar, bajra, rice, wheat, mung and maths, sugar-cane and groundnuts in the Krishna Valley, chillies, cotton potatoes, straw berries and tobacco are also cultivated. Tobacco is an important crop in SATARA.

Jambul, gela and pesha are the trees, mango, jack fruit and guava are grown for their fruits. Patches of bamboo sometimes occur. There is also a cinchona plantation here. Iron ore is found, manganese ore and lime stone also occur.

Blankets are also woven. Satara brass dishes are famous. The chief exports are grain and oil seeds, blankets, coarse cotton cloth, chillies, gur and raw cotton. The imports are cotton piecegoods, salt and hardware. Trade is carried on with Poona and Belgaum by rail-road. Weekly and bi-weekly markets are held at important villages and towns as MHASVAD, BELAVDI. The trade centres are at WAI,

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SATARA, KARAD, TASGAON (population 11,587) and ISLAMPUR (population 12,358) S M Rly traverses the district

Fairs:—Important fairs are—Khanapur, Tasgaon, 15th Pous, Cattle, Audumber, Tasgaon, Datta, Jayanti Mela, 5th Magh, Cattle and agricultural, Mhasa, Murbad Taluk, Poush Sudh Paurnama, Cattle Fair, (50,000 cattle), Shinganapur, Man Taluk, 15th Chaitra, Cattle and agricultural produce, Batlis-Shirala, Walwa Taluka, Gorakhanath Mela, Brass, copper and metal pots, Islampur, Sambhoo Appa Mela, 15th Kartik, 4 days, Agricultural products and cattle

#### SHOLAPUR DISTRICT.

The SHOLAPUR district is 5,441 sq miles in area and its population is 1,014,784

The chief crops grown are jowar, bajra, wheat, tur, gram, math, kulith, oilseeds, chillies, cotton and sunn-hemp

6 cotton mills have been opened at SHOLAPUR and are in a prosperous condition There are 3 in BARSII which is connected with G I P Ry, by a light railway There are about 300 handloom factories in SHOLAPUR

There are sugar factories at AKLUJ and BORGAON (Malsiras Taluk) Spinning, weaving and dyeing are the chief industries Silk saris and dhuties of SHOLAPUR are famous Blankets are also woven Cotton mills and ginning and pressing factories are situated in the district Oil presses and saltpetre manufactories also exist

The trade of the district is rapidly increasing Trade in wool and woollen wears in NAREPUTA and villages around deserve mention The chief exports are cotton, oil, oilseeds, ghee, turmeric, and cotton cloth The imports are salt, piece-goods, yarn, gunny bags, ironware, etc Trade is carried on in markets, fairs and village shops

SHOLAPUR CITY (population 203,525) Cotton mills continue to thrive 24 per cent of the total population of Sholapur are employed in textile industries No other single industry in Sholapur employs over a thousand persons except industries of dress and toilet

The centres of internal trade are BARSII, SHOLAPUR CITY and PANDHARPUR besides VAIRAG, MADHA, MOHAL, KARMALA, AKLUJ, NATEPUTA and SANGOLA.

The G I P Rly crosses the district and meets the Madras Railways at Raichur Besides there are 567 miles of metalled and unmetalled road in Sholapur district

Fairs:—Two big fairs of the God Vitthoba are held at Pandharpur in the month of Ashadha and Kartika every year according to the Hindoo Calendar Cattle shows are held at the time of the Kartiki Fair at Pandharpur where horses and ponies are brought for sale.

#### SURAT DISTRICT.

The SURAT district has an area of 1,662 sq miles and a population of 881,058

The crops grown include rice and jowar (staple), cotton, kodan, tur, wheat, bajra, castor seed (extensively cultivated in the South) and sugarcane

The exports are grain cotton, pulses, mowhra flowers, timber and bamboos The imports are tobacco, cotton-seed, iron, coconuts, and foreign goods The trade is carried on by railway and by the ships through SURAT.

SURAT CITY (population 171,443) Of late the sea-borne trade of Surat has declined while the export trade is markedly decreasing The principal articles of export are agricultural produce and cotton The land-borne trade, however, has increased considerably in recent years.

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This is due to opening up of railway communications with the surrounding countries. The imports are valued at Rs 15 lakhs and exports at Rs 5 lakhs annually on the average.

The following gives details of foreign trade —

	1933-34	1934-35	1935-36	1936-37	1937-38
			(in 1,000 rupees)		
Imports	—	3	4	3	1,11
Exports	26,80	25,67	—	2	—

SURAT is the centre of gold and silver thread making industry in the Bombay Presidency. It is famous for its brocades (worked with gold and silver flowers) on silk, coarse and coloured cotton goods are woven, targets are made of rhinoceros hides, weaving of silk, and cotton goods forms the chief industry. One cotton mill is situated here which produces fine fabrics.

Centres of trade are SURAT, BULSAR (population 20,195), and RANDER (population 14,512).

#### THANA DISTRICT.

The THANA district comprises an area of 3,573 square miles. The population is 8,42,136. Annual rainfall 70". The chief crops are rice, ragi, cereals, oilseeds, pulses and sunn hemp, gram or val. It has large trade in forage with Bombay. Vegetables and fruits are sent from gardens and orchards. Fishery in the sea is important and productive. The district is a source of fresh fish to the Bombay city. Forest products are timber, fuels, (firewood, charcoal), bamboos, karvi, ain and other barks, and several leaves.

There are many salt works. Making of salt is an important industry of the district besides agriculture.

THANA (population 21,816), is the head-quarter Station. Other trade centres are BASSEIN (12,689), BHIVANDI (15,619), and KALYAN (26,291). BELAPUR is a port of some importance. Foreign imports at this port during 1937-38 amounted to Rs 36,507 and exports to Rs 3,012.

The principal exports of the district are rice, salt, wood, lime and dried fish. The imports are cotton cloth, gram, tobacco, coconuts, and molasses.

The district is crossed by the B B and C I Ry, in the north and in the eastern and western directions by G I P Rly.

#### WEST KHANDESH DISTRICT

The district of West Khandesh in the Central Division of the Bombay Presidency covers an area of 5,320 sq miles. Population of the district is 77,794. Languages spoken are Marathi, Bhili and Gujarati.

Exports from West Khandesh constitute cotton, food grains, oil seeds, butter, indigo, wax and honey, while the imports are salt, spices, metals, piece-goods, yarn and sugar. Traffic is rail-borne.

DHULIA (population 39,939) — The head-quarters of West Khandesh, is a railway station on a branch of the G I P Railway which joins the main line at Chalisgaon. There is a cotton mill here and one at GADAG.

The chief trading towns in KHANDESH besides DHULIA and JALGAON are BHUSAVAL (27,989), DHARANGAON (18,542), NASIRABAD (14,753), CHOPDA (18,434), CHALISGAON (16,808), ERANDOL (12,382), NANDURBAR (16,919), YAWAL (12,751), PAROLA (12,277), RAVAR (9,489), PACHORA (9,082), SHIRPUR (10,938).

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# MARKET PLACES OF THE MADRAS PRESIDENCY

**T**HE Madras Presidency includes the western coastal plain south of Bombay, central tableland south of the Kistna and the eastern coastal plain south of Orissa. The Presidency including the states in it has an area of about 142,000 square miles and a population of 49,343,000. A portion of the Presidency, viz, less than half of the Vizagapatam district and two-thirds of the Ganjam district is amalgamated with the new province of Orissa, created since April 1, 1936

**Soil**, for the most part, in the Madras Presidency is not fertile excepting the deltas and the river margins, black cotton soil being the most characteristic feature of the Presidency. The country is generally divided into dry, i.e., non-irrigated and wet, i.e., irrigated lands. Tillage is also superficial owing to comparative roughness and hardness of the soil and the implements used are simple. The climate is free from extremes and the rainfall is generally plentiful.

**Live-stock**:—The chief breeds of cattle are Nellore and Mysore. Buffaloes are also met with in Bellary, Nilgiris and Vizagapatam. Sheep are numerous but are uncared for, so are pigs, and poultry, and the products of stock, e.g., manure (dung), milk, wool, hair, hides and skins, meat and bones form an immense addition to the income of the agriculturists. Cattle fairs and weekly markets in the South are special features of the Southern Madras. Sea fishery and tank fishery also employ a large number of people. 51.41 lakhs of pounds of wool were produced in this Presidency. It was exported to United Kingdom, America and other places within India like Bombay, United Provinces, Mysore and Sind.

**Crops** —The most important crops are rice, groundnut and millets. Rice is produced on the deltas and along the coastal strip while the millets and pulses in the dry districts. Total areas under principal crops are —

	1936-37	1937-38	1938-39	1939-40	1940-41
			(Figures in 1,000 acres)		
Rice	9,890	10,141	9,844	10,467	10,744
Groundnut	3,495	4,658	3,771	3,618	3,922
Cotton	2,461	2,512	1,950	2,222	2,413
Sesamum	512	546	376	602	786
Tobacco	280	280	280	320	311
Castor seed	264	247	268	266	267
Sugarcane	122	98	98	138	162
Bajra	2,768	2,572	2,718	2,717	2,559
Jowar	5,121	4,599	4,914	4,190	4,668
Maize	81	72	64	64	68
Gram	83	52	51	51	60

During 1940-41, 598,000 acres were under cocount, 8,000 acres under spices and 1,752,000 acres under ragi.

In addition to above tea, coffee and cinchona are grown on the lower slopes of the hills, spices and condiments in the extreme south,

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and coconut along the coast. Rubber trees are reared on the Nilgiris. Indigo (55,000 acres) is grown and Madras is now the biggest producer of that crop, contributing about 75 % of the whole yield. Tea is grown over about 79,000 acres. Vegetables of all kinds are cultivated annually. About 72 % of the people are engaged in agriculture including cattle breeders, labourers, etc. The lands are irrigated by canals, receiving water from dams on the hills.

Total area sown in the Presidency is 37,539,000 acres. The districts where the various crops grown most are: Rice—Tanjore, Malabar, Chingleput, Cholam—Bellary, Kurnool, Coimbatore, Nellore, Cambu—Coimbatore, Trichinopoly, Vizagapatam, Guntur, Ragi—Vizagapatam, Salem, Coimbatore, Maize—Guntur, Gram—Kurnool, Pulses—Anantapur, Bellary, Kurnool, Vizagapatam, Sesamum—East Godavari, Salem, Trichinopoly, Groundnut—S. Arcot, Kurnool, Guntur, Bellary, Anantapur, Coconut—East Godavari, Malabar, S. Kanara, Tanjore, Condiments and Spices—Guntur, Malabar, Vizagapatam, Cotton—Bellary, Tinnevely, Coimbatore, Ramnad, Indigo—Nellore, South Arcot, Tea—Coimbatore, Malabar, Nilgiris, Tobacco—Guntur, Coimbatore, Vizagapatam. Fruits and vegetables—Malabar, Vizagapatam, Ramnad.

**Coffee**—The area under coffee in the Madras Presidency amounted to 57,000 acres in 1940-41 as against 45,332 acres in 1939-40. The estimated average annual production in the Presidency is about 10.6 million lbs. as against 11.6 million tons in 1938-39 for the whole of India. The exports are high during January to June and the trade is slack during the rest of the period. The average annual rail-borne export is about 400 tons of which nearly two-thirds are to Mysore.

**Forests** clad with teak, ebony and sandalwood are situated in the west and south of the Presidency. There are also forests in the E. Ghat and teak plantations of Nilambur in Malabar. These forests are all protected.

**Minerals**—Manganese, salt, saltpetre and building materials, i.e., clay, granite, laterite, limestone, and stone are the chief minerals found. Coal of inferior quality is also found. Iron is abundant in the Salem district but is not worked on a large scale due to the absence of abundant coal supplies. Mica is obtained in large quantities in the district of Nellore and the Nilgiris while deposits of manganese occur at Bellary, Vizagapatam and Cuddapah. Magnesite is mined at Salem. Gold in river beds and the gold fields of Mysore are scattered in N. Arcot, Grapahite, corundum and diamonds are also met with.

**Industries**—Weaving of silk and cotton is an important industry being generally exported to the colonies where Indian labour immigrate. Coloured lungis and saris are made both for internal consumption and export. Block printing on cotton cloth is a side industry. Tanjore, Madura, Kuttalam, Karnal, Kampti, Adoni, Aini, Tuni, Cocanada, Pidupuram, Pithapuram, Salem, Coimbatore and the centres where saris of good quality are made and have not yet been ousted by foreign manufactures except by artificial silk which is gaining ground. These are in good demand as also the muslins of Chicacole and Aini. Madura supplies Bengal with fine cloths and there is a dyeing factory at Madura. Woollen carpets are made at Ellore, Muslipatam, Ayyampatam. Ornamental brass and bronze work were formerly made. Tanjore is the centre of metal work, and silver, brass and copper wares are made here. Vellore, Ganjam, Madura, Kurumbalur, Travancore and Vizagapatam are also centres of metal work. The latter also produces ivory and Vizagapatam is famous for fine ivory work. Lacquered ware of Kurnool is the finest in India. Trichinopoly makes models of

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temples, and earthenwares are made everywhere Mats of Tinnevely and Palghat are famous Cheroots and cigars are manufactured in Trichinopoly and Dindigul Cotton presses exist in cotton areas

There are 63 cotton mills with 14,52,000 spindles and 6 900 looms, employing 52 749 persons daily on the average, and 3 jute mills with 805 looms and 18 944 spindles, 8 hosiery mills and 6 silk mills Approximate quantity of cotton consumed in the cotton mills, during the year ended 31st August, 1942, was about 591,000 bales of 3½ cwts

During 1941-42 cotton mills in the Madras Presidency Spun 204 million yds of yarn as against 193 million yds in 1940-41 and wove 109 million yards as against 98 6 million yards in 1941-42

**Factories.**—There are 470 rice mills, 64 bricks and tiles factories, 10 saw mills, 11 bone mills 72 match factories, 1 paper mill, 6 leather and shoe factories 4 bakeries, 8 rope works, 2 iron smelting and steel rolling mills, 11 oil mills, 7 kerosene tinning and packing factories, 16 coach building works, 75 tea factories, 338 cotton ginning and pressing factories There is a Government cinchona plantation and factory

**Sugar Factories.**—During 1940-41, 11 factories worked with cane in the Madras Presidency as against 10 in the preceding season Amount of sugar produced during the season amounted to 44,100 tons as against 31,308 tons in the preceding year The total yield of gum from sugarcane in the Presidency amounted to 4,85,000 tons as against 4,09,000 tons in 1939-40

**Fisheries.**—Recent investigations have enabled the Fisheries Department to locate six new chank beds in Pulk Bay The researches revealed the occurrence, of hilsa fisheries at sea regularly in the months in which they disappear from the rivers

**Trade**—About 10 per cent of the maritime trade is shared by Madras. Tuticouin, Calcutt, Mangalore Cocanada, Tellicherry, Negapatam, Cochin, Cuddalore, Dhanuskodi, Mangalore and Vizagapatam are the other ports There is internal trade with Mysore and the Nizam's Dominions

**New Registrations.**—During 1939-40, the number of limited companies registered in the Province came up to 167 These had an authorised capital of Rs 3,42 lakhs, 167 companies went into liquidation during the year

**Irrigation.**—During 1940-41, area under irrigation was 9,221,000 acres of which 3,923,000 acres were irrigated by Government canals, 3,395,000 acres by tank and 1,448,000 acres by well

**Transport.**—The South Indian Railway and M S Railway cover about 4,000 miles There are about 22,000 miles of metalled roads and about 10,000 miles of unmetalled roads in the province Mileage of roads in the Madras Presidency is nearly 45 per cent of the total mileage in India The construction of some important major bridges over the Godavari, Kistna, Tungabhadra and Pannai rivers and several minor bridges, calculated to be in the neighbourhood of Rs 5 crores, is under project

### FOREIGN TRADE.

The following table shows the value of the sea-borne trade of the Madras Presidency during the last 5 years.—

	1935-36	1936-37	1937-38	1938-39	1939-40
	(in lakhs of rupees)				
Imports, Merchandise	15,71	15,27	28,85	24,61	27,51
Exports	26,80	36,14	38,13	35,48	38,91
Re-exports	11	11	19	17	—

**Imports.**—The total imports of private merchandise (excluding treasure and trade with Burma) in 1939-40 amounted to Rs 16 78 crores

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## 404 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Imports of machinery and mill work which for a long time scored the first rank gave place to grain, pulse and flour, the import of which group of commodities rose sharply from Rs 14 96 lakhs to Rs 2,23 24 lakhs. Diminished imports were noticeable in machinery and millwork (—Rs 1,00 99 lakhs), metals and ores (—Rs 27 46 lakhs), instruments and apparatus (—Rs 13 19 lakhs), paper and pasteboard (—Rs 3 30 lakhs), hardware (—Rs 7 68 lakhs), tobacco (—Rs 5 47 lakhs), glass ware (—Rs 6 13 lakhs) and silk raw and manufactured (—Rs 3 72 lakhs). Cotton manufactures, liquors and stationery showed no appreciable decline. These decreases were offset in the main by increased imports of grains (+Rs 208 28 lakhs) and sugar (+Rs 54 22 lakhs) and among others by enhanced imports of oils (+Rs 18 09 lakhs), cotton twist and yarn (+Rs 7 27 lakhs) dyeing and tanning substances (+Rs 7 87 lakhs), manures (+Rs 4 73 lakhs), chemicals (+Rs 22 96 lakhs), drugs and medicines (+Rs 9 14 lakhs), spices (+Rs 2 22 lakhs), and art silk (+Rs 15 00 lakhs).

**Exports**—The total export of Indian merchandise from this province to foreign countries excluding Burma increased from Rs 33 06 crores to Rs 35 77 crores reaching the 1937-38 level of Rs 35 65 crores. Madras leather which experienced a shortage of demand abroad last year (especially in the United Kingdom) reached its peak for the last five years. The exports of leather were nearly half as much against as in the previous year (Rs 4,79 73 lakhs in 1938-39 against Rs 7,03 85 lakhs in 1939-40). All the chief articles of export, except seeds, unmanufactured tobacco and oilcakes, gained improvement in the world-market under the complex conditions of a period of war-preparation followed by the outbreak of war itself. The decline in the demand for seeds was due to a shrinkage in the intake of groundnuts abroad to the extent of Rs 2,95 95 lakhs. The comparatively smaller increases in the export of castor seeds (+Rs 29 18 lakhs) and linseed (+Rs 22 52 lakhs) could not retrieve the abnormal fall under groundnuts. The shortage of demand for unmanufactured tobacco in the United Kingdom to the extent of Rs 88 78 lakhs offset partially by an increase in China's demand to the extent of Rs 54 68 lakhs accounts mainly for the diminished exports of tobacco from Rs 1,74 93 lakhs to Rs 1,43 09 lakhs. Increased exports were noticed appreciably in tea (+Rs 48 68 lakhs), fruits and vegetables (+Rs 7 65 lakhs), cotton manufactures (+Rs 57 24 lakhs), raw cotton (+Rs 51 21 lakhs), con manufactures (+Rs 34 34 lakhs), raw rubber (+Rs 22 64 lakhs), metals and ores (+Rs 33 88 lakhs), spices (+Rs 8 87 lakhs), hides and skins (+Rs 22 58 lakhs) and oils (+Rs 18 00 lakhs).

The distribution of trade among the several ports of the province continued as in previous years for the major ports of Madras, Cochin, Tuticorin and Calicut, Madras as usual leading with Cochin as the second. The shares of smaller ports showed violent changes. Dhanushkodi registered an increase over Cocanada, Mangalore, Masulipatam and Vizagapatam, while the last mentioned, with her increased exports of manganese ore ranked above Masulipatam, which had diminished exports of groundnut seeds. The relative importance of the other ports was maintained.

**Coasting Trade in Madras Presidency.**—A summary of the coasting trade done in the Presidency of Madras during last four years follows —

	1936 37	1937-38 (in lakhs of rupees)	1938-39	1939 40
Imports	9,52	10,84	9,50	8,87
Exports	6,44	7,87	7,98	7,32

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### MADRAS CITY.

The city of MADRAS has a population of 777,000 and is the third city in India in point of population and commercial importance. It is the seat of a University. It has a harbour and is the chief port of the Presidency. Its trade has been affected by competition with Cochin and the French port of Pondicherry and Karikal.

Madras is connected by rail with the west coast and with Ceylon on the south. Two main railway lines emerge from the town and penetrate into the interior. The broad gauge Madras and South Mahattha Railways bring in and carry away the articles of merchandise into the interior. There are also lines running to Bombay via the Hyderabad State and to Calcutta along the East Coast.

There are three modern cotton mills and several oil mills, hides and skins are also treated here before being sent away by steamers to foreign countries. Manufacture of cotton piecegoods is advancing apace.

The chief manufactured articles exported from Madras may be said to be hides and skins and leather, in which Madras occupies the foremost place in India. The hides and skins exported are chiefly what are known in the market as "half tans," which are largely in demand for pucca leather goods like boots and shoes, leather bags, etc.

Another article that is manufactured and exported is raw sugar (otherwise known as *guri* or *jaggery*) which is wanted by the manufacturers in the United Kingdom.

The following are the chief industries of Madras—Aluminium industry, brick and tile-making, cement works, coffee curing, coir making, cotton dyeing, glass, jute, leather, manures, metals and precious stones, mines and minerals, oil and oil seeds, paper, pottery, rice, silk, soap, sugar, sulphuric acid, tobacco, wood and timber and wool. Matches and glue (from tannery fleshings) are also manufactured. The handicrafts are—Weaving, embroidery and lace-making, gold and silver thread, essential oil, palm sugar, carpentry, carpet weaving, wood carving, boat building and blanket making.

The value of the total trade of the Port of Madras on private account, representing 38 per cent. of the aggregate trade of the Madras Presidency in 1939-40 as against 39.87 per cent. in the previous year and amounted in that year to Rs. 2,859 lakhs or a decrease of Rs. 394 lakhs, as compared with the previous year. Imports accounted for Rs. 1,395 lakhs and exports Rs. 1,464 lakhs.

### ANANTAPUR DISTRICT.

About 6,722 sq. miles in area, the district of ANANTAPUR has a population of 1,172,000. Languages spoken are Telugu and Kanarese. Average rainfall is 22.06".

Rice, cholam, cumbu, kolla and ragi are the principal cereals cultivated in the district, and castor, cotton and groundnut stand foremost among industrial crops.

Village industries are rare. A rough kind of blanket is woven in most of the taluks but those of BELAGUPPA, TENAGAL and KARIKANAPALLI of Kalyandrug taluk are superior. PAMIDI produces parti-coloured fabrics, and bangles are manufactured in many places of the district.

In BYADAGIRA of Madakasira taluk, CHILAMATUR of Hindupur taluk, long narrow pieces of gunny bag like things are woven with hemp fibre and these when stitched together can be used as spreads on floors or as screens. Cotton and silk cloth and saris are made in TADPATRI, YADIKI and PEDDAPAPPUR of Tadpatri taluk.

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In URAVAKONDA of Gooty taluk, there is a thriving weaving industry, cotton saris of a cheap variety are manufactured and there are about 2,000 looms in the place

In GOOTY, HINDUPUR and DHARMAVARAM taluks, there are several ground-nut decorticating factories. There are 3 ground-nut decorticating factories in BELAGUPPA in Kalyandrug taluk. In PAMIDI of Gooty taluk, at HINDUPUR and ANANTAPUR town, there are oil mills

GODDUMARRI, a village in Tadpatri taluk, on the bank of the Chitravati, contains extensive fruit bearing gardens. It is a good variety of oranges called 'cheena,' guava and pomegranate fruits on a large scale

MUCHUKOTA in Tadpatri taluk with its range of hills running from north to south, contains good mining facilities for extracting barytes. Barytes is available in KRISTIPADU village in Gooty taluk

In and around VAJRAKARUR in Gooty taluk, pieces of raw diamonds are picked up on the surface soil especially immediately after rains. Raw diamonds of value ranging from Rs 5,000 to Rs 25,000 are occasionally picked up at Konganapattu village of the same taluk

TADPATRI has a flourishing trade in cotton and groundnut. Ghee is exported on a large scale from this place. There are 5 cotton ginning, groundnut decorticating factories, two cotton press factories and one oil expeller in the town. The industry of spinning and weaving of cotton cloths is on the increase

KADIRI—There are nearly a dozen groundnut decorticating factories in the town

ANANTAPUR is the head-quarters of the district. It has a population of 15,099

DHARMAVARAM—The town has a rising weaving industry and manufactures both cotton and silk cloths specially saris for women and has a good daily market. The place is noted for gingelly oil

HINDUPUR—The town has a large and increasing trade in jaggery, piece-goods and gram. There are 7 groundnut decorticating factories in the town

GUNTAKAL has a population of 15,620

Fairs—Makkappalli, Sree Sangameswara Cattle fair at Kothacheruvu, Vaisakha Pournavami 9 days, Penukonda, Syed Sha Baba Fakrodeen's Urs fair, 10th days of Jamadal Akhri, (Mohammadan Month), 5 days, Lalgudy, S I, Vaikuntha Ekadasi day (December), Agricultural and Industrial, 15 days, Samayapuram, Bojarajapuram, Cattle fair, Penukonda, Sree Subramanya Swami Parasha at Peddamanuthur, Magha Suddha Sashti, 6 days, Tenagal, Kalyandrug Taluk, cattle fair Magh Bahula Panchimi, 8 days

### ARCOT (NORTH) DISTRICT.

The district of NORTH ARCOT having an area of 4,954 sq miles has got a population of 2,580,000. Languages spoken are Tamil and Telugu. Climate is dry and varied. Average rainfall is 38"

Crops raised are rice, ragi and kambu. Variagu, cholam, sugarcane, gingelly and groundnut, are also grown, the products being chiefly exported. The trees are red sanders which are chiefly used for making a costly red dye. Teak, black-wood, sandal-wood are the other forest products, good granite is met with

Cotton weaving, spinning and dyeing and silk cloth making at ARNI (17,446) constitute the chief industries. Woollen carpets of a coarser quality are woven in Jails. There are brass works also. At

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RANIPET leather from tanneries is very widely sold. chemical manures are also manufactured and mangoes and oranges, for which this district is famous, and grapes, which grow abundantly, in TIRUPATTUR (18,299), are exported in large quantities. Betel-leaves are another important article of export. Other exports to the surrounding districts are rice, groundnut, hides, skins and horns, jaggery, tamarind, stone, and piece-goods to the surrounding districts. The imports here are piece-goods, yarn, twist, salt, chillies, tobacco, unwrought brass, and iron. The skin trade centre is at GUDIYATTAM.

The important marts are —

VELLORE (population 57,265)—Industries —Brasswares, Beedi and cigar manufacture, tanning hides, carpet manufacture and cotton cloth weaving, Exports —Beedi, cigars, brass vessels, bamboos, jaggery and tanned skins. Imports —Raw hides and skin, timber.

ARNI—Industries Weaving, spinning, dyeing, silk cloth weaving, mat manufacture and tanning hides. Exports Mats.

TIRUPATHOOR—Industries —Beedi manufacture, tanning hides and mat manufacture, baskets and mat making out of bamboos. Exports. —Dholl, jaggery, tamarind, groundnut, leather. Import —Rice.

GUDIYATTAM—Industries —Beedi manufacture, weaving, tanning hides, manufacture of manure, teakwood furniture and poultry farming at Katpadi. Mat making industry is carried on in Melalathur and Gudanagaram. Palmyra-jaggery is manufactured in Eachambat and Mittalam villages and sugai is prepared from palmyra jaggery in Malpatti village. Exports Tanned skins, coconut, paddy, groundnut, jaggery, mangoes and Sathu oranges, eggs, etc. Imports —Raw hides, foodstuffs.

WALLAGAH—Industries —Weaving, spinning, dyeing, beedi manufacture, tanning hides, making jars and carpet weaving. Exports —Paddy, groundnut, carpet, tanned leather, jars, manure, spirit. Imports —Raw hides, bones, avaiam bark.

ARKONAM—Industries —Weaving. Exports —Paddy, groundnut. Imports —Articles of foodstuff, black gram and red gram.

CHEYYAR—Industries —Weaving, mat manufacture. Exports —Paddy groundnut and cloths including saies.

WANDIWASH—Industries —Weaving, mat manufacture. Exports —Mats. Imports Sundry articles referred for domestic consumption.

TIRU VENNAMALAI (population 27,769)—Exports —Groundnuts. Annual cattle fair is held during Karthikai festival in November.

POLUR—Industries —Weaving, mat manufacture, extracting oil from country mills, blanket weaving, basket making, and carving of stone images. Exports —Groundnut, gingelly, ragi. Imports —Cloth, grains and groceries.

CHENGAM—Industries —Blanket making out of sheep wool. Exports —Padoz chillies groundnut, tobacco and bamboo. Imports —Cotton goods, cotton yarn.

The Madras-Calcute trunk road runs from east to west along the Pallar touching all important towns situated on the river, WANDIWASH and CHEYYAR taluks have no railway communication.

#### ARCOT (SOUTH) DISTRICT

SOUTH ARCOT is an open undulating plain with one range of hills, and has a population of 26,10,291 within an area of about 4,000 sq miles. The rainfall averages 46". Tamil is the language spoken here.

Paddy, cambu, and varagu are the important food crops, and the principal industrial crops are groundnut, oil seeds indigo and sugarcane, PANRUTI, VALAVANUR, ULUNDURPET, TIRUKOILUR,

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VRIDHACHALAM and CUDDALORE are chief centres of groundnut traffic. Condiments and spices, fruits and vegetables are also cultivated. Tobacco of superior quality is cultivated at SHIVAPURI in Chidambaram.

There are distilleries at NELLIKUPPAM and the trade of the district centres round CUDDALORE. Cotton fabrics are manufactured here. It is besides a maritime district and the chief trade centres or ports are CUDDALORE and PORTO NOVO of which the former has a great name and constitutes the headquarters of the district.

There are 530 miles of metalled road and an equal number of miles of unmetalled road, and the opening up of the Villupuram-Trichinopoly Railway has increased the importance of VILLUPURAM (population 20,127) as a railway junction.

CUDDALORE is an important port, exporting groundnut, oilseeds, and cotton piecegoods, ghee, turmeric, grains, earthenwares, etc. Exports of groundnut during 1938-39 were valued at Rs 147 lakhs. The following table shows the nature of foreign trade done at the port.—

	1938-39	1939-40	1940-41	1941-42
		(in lakhs of rupees)		
Imports	17.4	32.5	19.4	16.7
Exports	144.6	147.4	57.9	63.8

Principal imports (foreign) into this port are betel-nuts, sugar, and exports consisted chiefly of groundnuts and lungis and saies. The coasting trade consists chiefly of—Imports: coal, pulse flour, gunny bags, and timber. Exports: gram and groundnut.

Coasting trade amounted to Rs 183 lakhs in 1938-39 as against Rs 198 lakhs in 1937-38.

CUDDALORE, CHIDAMBARAM and VILLUPURAM are municipalities with a population of 60,634, 24,891 and 19,775, respectively.

PORTO NOVO is a port with a population of 13,762. The foreign trade during 1937-38 was valued at Rs 57 lakhs. During 1936-37 the value of foreign trade amounted to Rs 5,14,000. Foreign imports during 1937-38 were valued at Rs 3,34,000 and exports at Rs 2,36,000. Coasting trade during 1938-39 amounted to Rs 13,000.

Cattle fairs are held at two places in this district. One is being held at Melmalayanur, Gingee Taluk in the month of February and another at Mailam, Tindivanam taluk in the month of March. At both the fairs cattle are brought from different parts for public sale.

#### BELLARY DISTRICT

The BELLARY district occupies an area of 6,136 sq miles and has a population of 10,51,469. The annual rainfall averages about 24". Languages spoken in the district are Kanarese, Telugu and Hindustani.

Chollam and korra constitute the main food crops. Pulses are also grown as a mixed crop. Cotton and groundnut are the only industrial crops of this district. Sugarcane is grown mainly at HOSPET and is very paying.

Cotton and silk weaving are important industries throughout the district. The centres of silk weaving are KAMPLI, HAMPASAGARAM, ROYADRUG, etc. ADONI manufactures coloured cotton rugs which have a considerable sale. Woollen blankets are woven at KUDLIGI and HARPANAHALLI. There are many cotton ginning factories in the district. Manganese is mined greatly in the district. There are about 5 mines.

BELLARY (population 47,573) is the headquarters of the district, and is a cotton centre. There is a small distillery in the town besides

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two steam presses and a cotton mill (spinning). Bellary is well known for its wool. The woollen industry there could not in the past thrive because of the exports of large quantities of wool from the area to inland and foreign stations.

**ADONI** (population 35,425) —It is a chief centre of cotton trade. Cotton carpets and mats are also made here and a good trade exists in these articles. There are two tanneries at KOSEGI.

**HOSPET** (population 26,013) —It has a long street which is very important. There is a tannery. Chief trade of the place consists in jaggery (coarse sugar).

There is a sugar factory (The India Sugars and Refinery) and a weaving mill (Gopalkrishna Weaving mills centre) for the manufacture of saris, HASUPI which is a very important place of pilgrimage is at a distance of 12 miles from Hospet R. S.

**ROYADRUG** (population 16,040) —It has several broad, regular streets, and many narrow and irregular lanes. There is a tannery, and a good trade exists in silk fabrics and buugulu manufacture.

**YEMMIGANUR** (population 12,683) —The chief industry of the place is cloth weaving, mixed silk weaving of cotton saris for women and it has a good trade in those articles.

The chief trade of Bellary is with Bombay, Hyderabad and Mysore. From Bombay it imports rice, turmeric, chillies, metal and metalwork, and exports to Bombay cereals, silk fabrics, cotton carpets, blankets, and jaggery, cattle, rice, timber and coconut are received from Mysore, and blankets, oilseeds and cotton stuffs are sent there. Hyderabad receives from here cholam, jaggery, cotton and silk fabrics and sends out raw cotton chiefly.

**Fairs**—A cattle fair is held every year in February or March at Kunuvatti of the Harapanahalli Taluk bordering the Bombay Presidency. A large number of cattle from Mysore, Nellore and Dharmavaram was brought for sale.

#### CHINGLEPUT DISTRICT.

The district comprises an area of 3,071 sq miles and a population of 18,22,000. The roads in the district are well laid out. The average rainfall is 45".

Chief crops are rice, great millet, spiked millet, ragi, varagu or arika, pulses, sesamum, groundnut, coconut condiments and spices, (indigo), betel vines, fruits and vegetables.

**CHINGLEPUT** (population 14,358) —The office of Revenue Divisional Officer and the Sub-Collector, and the Courts of the District and Sessions Judge, Sub-judge and District Munsiff are all in this town.

**CONJEEVERAM** (population 54,258) —The town is famous for cotton and silk weaving and its weaving population comes to 25 per cent of the whole population. Umbrellas for temples are manufactured and sold all over Southern India. It is an important trading centre exporting large quantities of cloth and paddy.

**POONAMALLEE** (population 20,340) —It is a military station noted for flowers.

**SEMBIYAM** is a town with a population of 33,127.

**SAIDAPET** (population 33,637) —Imports to this town consist of cotton piece-goods, hardware and coal, and exports (in small quantity) of rice and groundnut. There are a number of tanneries.

**TIRUVOTTIYUR** (population 10,732) —Rice is largely grown here.

**UTTARAMERUR** —A weekly market is held here, where rice, grains, foreign goods and cattle are sold.

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**TIRUVALLUR** (population 10,650) —Red handkerchiefs and cloths for Mahomedans are manufactured in the Satiyavedu division and sent to Bangalore

**WALAJABAD** —This town is noted for tannery It exports rice and paddy A weekly market is held here

**SRIPERUMBUDUR** —This is noted for a Vaishnavite temple It has a big lake

### CHITTOOR DISTRICT.

The district of CHITTOOR has a population 14,47,103 and an area of 5,901 square miles Languages spoken are Telugu and Tamil

There are several bell-metal factories at KALAHASTI Brassware of TIRUPATI are well-known Indigo cultivation is decreasing in KARVETNAGAR

CHITTOOR is the head quarters of the district Other important places of the district are TIRUPATI, MADANAPALLI, KALAHASTI, and PUNGANUR PAKALA and RENIGUNTA are important railway junctions

### COIMBATORE DISTRICT

The district has an area of 7,782 sq miles and a population of 28,09,000 The average annual rainfall is 25 inches

The crops grown are cholam, cambu, pulses, ragi, rice, cotton, sugarcane, tobacco, mulberry for silk works Tea and coffee are widely cultivated There are 12 coffee estates yielding 1,582,665 lbs of cured coffee and 34 tea estates yielding 15.2 million lbs of tea

This district has real forests, sandal and cutch forming a continuous belt Myrobalans are obtainable, soapnuts, honey, wax are also found here Cotton and silk weaving, making of carpets, which are sold locally are the chief industries, they are also sent to Madras, Bangalore and Mysore, Trichinopoly, etc, and are made at BHARAIN There are several cotton ginning and pressing factories and eight spinning and weaving mills, tile factories, as well as several works for preparing coffee Silk industry is carried on in KOLLEGAL (population 13,849) There are tanneries and rice mills in this district and there is a good trade in hides and skins

The chief exports are cereals, pulses, chillies, turmeric, spices, cotton, oilseeds, tobacco, ghee, sandal wood, plantain, jaggery, brass and copper vessels, cattle and leather, and the chief imports are rice, salt, fish, piece-goods, yarn, metals, metal wares and coconut oil (from Malabar)

The internal trade is conducted in numerous weekly markets, the most important centres of which are POLLACHI (population 22,112), TIRUPPUR (18,059), DHARAPURAM (18,218), UDUMALPET and COIMBATORE, ERODE is one of the important centres of the trade in Southern India and a big railway junction on the South Indian Railway The population of COIMBATORE is 95,198 and that of ERODE is 33,672 With nearly 188,000 looms, and an industrial school for cabinet making, the district of Coimbatore is a place of some trade

The chief mineral product of Coimbatore is saltpetre There are 14 saltpetre refineries in the district Toys of good workmanship representing fruits, penholders, jais, paper-weights, etc, are made and sold locally

### CUDDAPAH DISTRICT )

The CUDDAPAH district has an area of 5,918 sq miles and a population of 10,56,982 Languages spoken here are Telugu and Hindustani

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The principal produce is raw cotton. The next include foodgrain (cholam) and egg, Cuddapah slabs, minor forest produce, turmeric and in recent years, groundnuts. Locally grown turmeric finds a wide market in the provinces including northern and western India. Ground-nut generally finds its way to Madras or Pondicherry. Local melons are sent, among other places, to Hyderabad, Bombay, Calcutta, Madras, etc. A large quantity of barytes is raised. Asbestos is found in small quantities.

MADHAVARAM in Siddharattam taluk is also noted for its fine lace-bordered cloths. Reed-mats are manufactured in PULLAMPET of Rajampet taluk. China clay is also worked in HASTAVARAM village and PATUR Panchayet Forest area (both in Rajampet taluk). In SETTIGUNTA (Rajampet Taluk) wooden dolls are made.

There is a Fruit Research Station established by the Government at ANANTHARAJUPET (Rajampet Taluk) and oranges (locally called "Kodu Cheeni") are a special product of KODUR and its adjoining villages (of Rajampet taluk).

The chief items of imports are domestic requisites such as salt, kerosene oil, sugar, spice, rice, etc. Foreign piece-goods and yarn are largely imported.

The three principal trade centres in this district are in order of their importance, PRODDATUR, CUDDAPAH and RAJAMPET. Other important towns are JAMMALAMADAGU, BADVEL, VEMPALLI, KAMALAPURAM and ROYACHETTI.

CUDDAPAH (population 28,266) —It is not of much importance except that it is the head-quarters of the district. It is very hot.

JAMMALAMADAGU (population 9,639) —It is a busy centre of trade. It exports cotton, the chief product of the country. Cloth is manufactured here on handlooms. Carpets made here are sent to the Central Provinces and the Bombay Presidency and find a ready sale.

PRODDATUR (population 126,951) —There are two cotton pressing factories here. Brass, bell-metal and copper vessels are manufactured at VONIPENTA.

PULLAMPET is reputed for its fine lace-bordered cloths.

Fairs:—Cattle fairs are held at Chinnamandem, Madithad and Kamelur.

### EAST GODAVARI DISTRICT.

The East GODAVARI district has an area of 5,678 sq miles and a population of 20,78,090. Average rainfall 40.26". Telugu, Hindustani and Yerikala are the languages spoken.

Paddy is the principal crop and cholam is the other cereal most extensively grown in the delta taluks. Other important crops are turmeric, sugarcane, betel, garlic, onions, plantains, arecanut, gingelly, castor and tobacco.

RAZOLE and AMALAPURAM are noted for coconut, arecanut and plantain gardens, and tobacco in RAZOLE, RAMCHANDRAPURAM, RAJAHMUNDRY and AMALAPURAM (15,213), and sugarcane in RAMCHANDRAPURAM, COCANADA, and PEDDAPURAM (population 17,338) are important among the industrial crops of the district, while, excepting the PITHAPURAM TALUK, gingelly has an extensive cultivation all throughout the district.

COCANADA (population 65,952) —The town is connected with the main line of the Railway by a branch line off SAMALKOTA and is a sea port. The town and port is the most important centre in the Coromandel Coast. It is the chief port in the Madras Presidency for the export of rice, the receiving centres being Colombo, Mauritius, Coromandel and Malabar.

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Principal exports include raw cotton, groundnuts, rice and paddy (to Ceylon and Mauritius), the imports to the port are kerosene oil (from U S A), and metals (from U K) 105,138 tons of groundnut valued at Rs 130½ lakhs were exported during 1938-39 Figures of foreign trade follow —

	1939-40	1940-41
Imports	Rs 94,53,566	Rs 68,56,264
Exports	Rs 1,37,77,888	Rs 2,67,54,232
Figures of coastal trade follow —		
Imports	Rs 10,27,751	Rs 3,93,054
Exports	Rs 10,10,325	Rs 4,85,267

**PEDDAPURAM** (population 13,000) —The place possesses a good weekly market in which all the agricultural products of the surrounding country are offered for sale

**PITHAPURAM** (16,151) —There is a weekly market for selling the products of the neighbouring lands An important feature of the market is that cattle are sold here The bell-metal ware industry of the town is encouraging

**RAJAHMUNDY** (population 63,526) —Rajahmundry is the second important town of the district The articles manufactured here include aluminium articles, sandal and other woodwork There is a paper mill here The trade of the place is prosperous and includes agricultural crops besides those already mentioned

**SAMALKOTA** (population 18,001) —There is a sugar refinery and distillery in the town There is also a Government Experimental Agricultural Farm here

### GUNTUR DISTRICT.

The district of GUNTUR has a population of 22,77,000 and an area of 5,735 sq miles Languages spoken are Telugu and Hindustani

The staple food crops are cholam, variga and cambu, but paddy is the main crop Of the industrial crops, cotton, tobacco and castor are important The tobacco grown in this district is one of the best of its varieties, tobacco is exported to various parts in this country and also to foreign countries

Ground-nut is grown in all the taluks of the district except in the deltaic areas and exported for industrial purposes

**Duggirala** in Tenali Taluk is the centre of business for turmeric which is grown mostly in the Taluk and also collected from other districts

There is a jute mill, about 40 rice mills and one oil mill in the district besides five pressing and ginning factories

**GUNTUR** (population 65,179) is a big town **TENALI** (34,580) is the chief centre of trade in paddy and **BAPATEA** is noted for its palmyra and spice plantations Tobacco factories of the district are growing in importance

**CHIRALA** (population 18,853) —Cotton weaving is a prosperous craft in the town proper It is one of the big marketing centres for tobacco

**MANGALAGIRI** (population 16,911) —It is a centre of weaving industry Cement is manufactured here The stones procured in abundance in Narsaraopet and Palnad Taluks is used in the manufacture of cement Thousands of Hindus flock in the temple of Narasingha during the annual fair held during the fullmoon of March

**ONGOLE** (16,672) —It is a town of some importance The surrounding country is rich in alumina The trade of the place is chiefly in agricultural produce, hides and skins, etc

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**NARASARAOPET** (15,403) —It is noted for its manufacture of iron camp-furniture which are manufactured here on a large scale. Fur blankets are manufactured in **DRONADULA**, a village in **NARASARAOPET**. It is the centre for chillies and cotton traffic.

**PONNUR** has a population of 11,101 and **VETAPALEM** (10,288) is another trade centre.

### KANARA SOUTH.

The **SOUTH KANARA** District has an area of 4021 sq miles and a population of 15,25,600. Languages spoken are Kanarese, Telugu, Malayalam, Konkani, Marathi, Hindustani and Tulu.

Rice is cultivated on a large scale in the District. Jeera rice is a good and fine quality of white rice. Other cereals grown are urid, horsegram, beans, green gram and gingelly. 317 acres of land is under coffee.

Jaggery industry is progressing especially at **KULUR**, **ULLAL**, **KASARAGOD** and other places where sugarcane is largely grown.

Coconut grows abundantly in the District, especially at **KASARAGOD**, **MANJANADY**, **ULLAL** and **MALPE**. The oil extracted in the rainy season is rather dirty whereas that prepared in hot season is quite transparent.

Arecanuts of betel nuts, red and white, are largely grown in the villages. Cashewnuts are largely grown on the hills along with the fuel trees. The collection of nuts is done in March and April. The fried nuts are sent to foreign countries and used for preparing macaroons etc. Chillies are largely grown at **HAREKAL** and in every village especially before the rainy season sets in. They are also grown in the Ghauts and are lower in price than village grown chillies which are very hot. Coffee is largely grown on the Ghauts. The best variety being "peaberry", Ginger, groundnuts, etc., are grown in several places. Cardamoms, pepper, lampatri are grown in the Ghauts.

Kaolin is obtained deep in the hills at **MANNAGUDDE** and **JEDIGUDDE** at Mangalore. Excellent laterite is dug at **PADAVU** for building construction.

The chief industries of the District are fish curing, tile and brick factories and pottery, coffee curing, weaving, con making, soap making and Teriacotta ware.

Tobacco is largely grown on the sandy plains near the coast line especially at **KUMBLA**, **KASARAGOD**, **HOSDRUG**, **MOGRAL** and **BEKAL**. South Kanara is well-known for the manufacture of beedies.

Tiles are manufactured at **JEPPU**, **KUDROLI** on the bank of the Netravati river at **MANGALORE**. There are two or more iron works, one at **JEPPU** and another at **HAMPANKATTE**. There are also about 50 bakeries. Fishing industries go on all the year round and there are a few fish oil and guano factories. Fishes are dried, salted and exported to local areas for consumption during the rainy season. Oils are also extracted and guano is manufactured and is sent to the Ghauts for improving the soils. Brassware and potteries are manufactured at **MANGALORE**. **UPPINANGADY** in Puttur T. R. is the centre of pottery trade. Rattan manufacturing industries are carried on at **PUTTUR**. Mangalore acid-proof jars are manufactured near **COONDAPOOR** and are widely in demand. Rope is made at **MANJANADY**, **ULLAL**, and **MALPE**.

**MANGALORE** (population 66,756) is a town of some importance and the chief port in the district, handling both foreign and coasting trade. Mangalore's coasting trade consists chiefly of imports of coffee, fish, fruits and vegetables, copra and lungis, and exports of fish manures, raw rubber, cardamoms and pepper. From 1939 onward a

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coffee curing yard has been started at Chickmagalur and consequently the coffee trade in Mangalore will be lessened. Exports during 1938-39 were coffee (Rs 53 lakhs) cashewnuts (Rs 40 lakhs) and cardamom (Rs 8 lakhs). An Industrial Museum has been recently opened in the buildings of the Felix Pai Bazar in Mangalore Town.

Coasting trade at Mangalore during 1938-39 was valued at Rs 1.58 lakhs as against Rs 1.57 lakhs in 1937-38. Foreign trade during 1938-39 was valued at Rs 1.32 lakhs.

**COONDAPOOR**—This is another port of some importance. Imports of foreign produce include sugar, glassware, china-ware, chemicals, biscuits, peppermints, barley, liquors, stationery etc.

The other sea ports are **BAINBUR**, **KASARAGOD**, **HANGAR KATTA**, **MALPE** and **MULKI**. Of these **KASARAGOD** and **MALPE** handle good coasting trade.

**DHARMASTALA** in Puttur Taluk is a famous place of pilgrimage during Kaithigai Festival of Thousand Lights. Another famous place of pilgrimage is **SUBRAMANIA** during Shasti festival when there is a tank at IRDE whose water is always tepid. It is stated to have considerable medicinal properties.

**UDIPI** in Udipi Taluk is also an important place of worship for the Madhwasect of Brahmmins. The Gumatas at Karkal and Venoor and the Bastis at Karkal and Mudabidi attract a large number of visitors and these are holy places for the Jains.

**Fairs**—A cattle fair at Sitanadi in Karkal Taluk is held annually for a week a few days after the close of the Subrahmanya fair.

#### KISTNA DISTRICT

The **KISTNA** district has a population of 1,446,000. Rainfall averages 37".

The district produces rich crops of rice which is cultivated over 5.7 million acres. Jowar is cultivated over 2 million acres. Groundnut is cultivated widely, the area under tillage being 1 million acres. Condiments and spices are grown in the district on a fairly large scale. Cereals and pulses grow over about 1 million acres.

The district has one jute-mill, one sugar factory and about 120 rice mills. The only industry of any importance is weaving. Toy-making is carried on at **KONDAPALLI**, and tanning is done in **BEZWADA** and **ELLORE**. Lace-making is a cottage industry in **NARASAPUR** (only 6 miles from the sea) and **MASULIPATAM**.

**BEZWADA** (60,427) is a rising municipality and was for some time the seat of the Andhra University.

**MASULIPATAM** (population 56,928). It is a seaport of some importance having both foreign and coasting trade. Among foreign exports in 1938-39 (Rs 246 lakhs) the principal articles were groundnut (130,230 tons valued at Rs 206½ lakhs), paddy and rice.

Coasting trade during 1938-39 was valued at Rs 4,58,000 as against Rs 8,58,000 in 1937-38.

Printed cloth however is manufactured but the old palampores are no more to be seen. It has got a tanning factory. The trade which is small includes agricultural crops, hides and skins and cotton, besides grains, pulses and groundnut.

**PALAKOLU** (population 14,000)—It is the chief mart of the Western Delta. The trade consists chiefly of fruits, grain, yarn etc.

#### KURNOOL DISTRICT.

The district of **KURNOOL** has a population of 11,44,000 in an area of 7,581 sq miles and Telugu and Hindustani are the languages mainly spoken. The district has an average rainfall of 26.01 inches.

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The main food crops of the district are cholam, cambu, paddy, korla and varagu or arika. Cotton, groundnut, castor and tobacco are the important industrial crops. A growingly favourite crop is the groundnut. Chillies form an important crop under the Kurnool-Cuddapah canal and sugarcane is confined to a small area.

Area under crops in the district in 1939-40 —Rice, 80,250 acres, Wheat, 1,417 acres, Cholam 5,67,715 acres, Cumbu 60,105 acres, Ragi 25,014 acres, Maize 340 acres, Varagu or Arika 94,819 acres, Korla 4,64,441 acres, Shama 636 acres, and other cereals 12,256 acres, Pulses (gram) 1,15,904 acres, Castor seed 29,878 acres, Groundnut 4,05,185 acres, total oil seeds 4,39,21 acres, Condiments and spices 33,992 acres, Sugar 526 acres, Cotton 2,17,120 acres, other fibres 2,517 acres, Indigo 2,142 acres, Tobacco 7,629 acres, other drugs and narcotics 6,965 acres, total 21,41,158 acres.

The northern half of the district has a brisk trade in grains which are mostly grown there. Barytes is found abundantly in the district. Steatite and ochres are also met with here and there. Iron ore and slate are also found in some parts.

**KURNOOL** —Cotton carpets of a superior quality are manufactured here and exported to other places. Good melons are grown in the bed of the river Tungabhadra during the summer months and exported to other places in the Presidency and Hyderabad. The town has two cotton presses and several gins which consume the products of the surrounding country. The industries of the place include cotton cloths of a coarser kind. It is the head-quarters of the district.

**GUDUR** —This place is 12 miles from Kurnool and it is connected by motor-bus service. Silk cloths are manufactured by weavers here.

**NANDYAL** —It is a centre of grain, groundnut and cotton trade. The town is noted for its lacquer work in which there is a great trade. It is a municipality with considerable trade.

**MAHANADI** —It is about 10 miles away from Nandyal and is situated in the midst of forests. There is a very picturesque temple which attracts many people from different parts on Mahasivarathri day. There is a perennial spring of crystal clear mineral water flowing throughout the year from within the temple.

**PANYAM** —It is noted for all varieties of fruits, seeds and seedlings which are exported to the different parts of the Madras Presidency. Flooring slabs are quarried and exported.

**KADAMALAKALVA** —There are Government fish breeding ponds here at a place known as Priema.

**SREESAILAM** —People in thousands gather from all parts of India at the time of the Sivaratna festival. People from the Mysore Province and the Bombay Presidency visit the place in thousands every Telugu New Year's day.

**SANGAMESWARAM** —This is an important place of pilgrimage at the time of Sivaratna festival and it is 14 miles from Nandikotkur, the Taluk headquarters.

**CUMBUM** —Cotton carpet weaving is done here to a small extent and slate industry has been recently started.

**DIGUVAMETTA** —This is a Railway Station in the thick of the forest. European and Indian gentlemen visit the place during summer for shooting game.

**UPPER & LOWER AHOBILAM** —These two are very important places of pilgrimage where thousands of people gather at the time of the festival which generally takes place in the end of March every year.

Prepare ghee, butter, casein, condensed milk, etc. at home. **MILK & MILK PRODUCTS** explains the way. Re. 1/12. Industry Book Dept., Calcutta.

**BRAHMAGUNDAM**—There is a famous temple and a water spring and hundreds of pilgrims gather there for the Mahasivarathri festival.

**MARKAPUR**—Many pilgrims visit the place from the east and north. It is known for slate industry.

Other important places are (1) **BETAMCHERLA** noted for the export of slabs used for flooring and roofing of houses, (2) **VELDURTHI** noted for its cotton and groundnut trade, (3) **DHRONACHELLAM** where there is a tannery and tanned skins are exported in large quantities from here, (4) **MADDIKERA** a trading centre for cotton, groundnut and grain, (5) **PATTIKONDA** is the headquarters of the taluk.

**Fairs**—Chief fairs and festivals are Gorantla, 27 miles from Kurnool, March or April, a cattle fair is held during the car festival, Mahanadi, 10 miles from Nandyal Taluk Headquarters, Mahasivarathri, February, a cattle show is held by the Agricultural Department and valuable prizes are distributed for the best exhibits, Tartooi, 4 miles from Nandikothur Taluk Headquarters, April, Sreeangaswami festival, a large trade is done in timber for house construction and agricultural implements, this being an annual market place for coarse blankets made of wool locally in some villages of the Nandikotkur Taluk; Markapur Taluk, Headquarters, March and April, Chennakesavaswami festival, a cattle show is arranged annually.

#### MADURA DISTRICT.

The district with an area of 4783.26 sq miles is peopled by 2,444,000 persons. The annual average rainfall is about 46.61".

The chief crops grown are varagu, cholam, ragi and cumbu, horsegram, paddy, cotton, gingelly and castor seed. Area under crops in 1939-40: Rice 2,98,446 acres, wheat 1,100 acres, jowar 3,70,942 acres, bajra 43,654 acres, maize 54,695 acres, other grains and pulses 2,600,059 acres, sesamum 29,528 acres, castor seed 1,987 acres, groundnut 10,051 acres, coconut 8,297 acres, condiments and spices 21,473 acres, sugarcane 2,318 acres, sugarcane bearing palm 1,439 acres, cotton 1,61,279 acres, tea 796 acres, coffee 12,659 acres, tobacco 8,764 acres, fruits and vegetables 33,938 acres.

Fruit trees and vegetables are largely cultivated in **DINDIGUL** and **KODAIKANAL** (a sanatorium and the chief hill station). The chief products of commercial importance on the hills are plantains, cardamoms, garlic and coffee. **DINDIGUL** (population 43,617) is famous for its tobacco which is grown at **PALNI** (18,899) and **PERIYAKULAM** (23,004). There are 5 tea estates and 469 coffee estates, in the district, estimated output of coffee during 1938 was 728,987 lbs. Cigars and bell-metal wares are also manufactured.

Jaggery is made from palmyra juice in many villages. In **MELLUR TALUK** the laterite beds are remarkably rich in iron, and salt is manufactured at certain stations. People here carry on manufacture of fine and decent cloth on an enormous scale. The most important art of the district is silk weaving. Dyeing from vegetables is also resorted to. There are 4 weaving and spinning mills and several lock factories. Artificial silk is woven to some extent.

**MADURA CITY** (2,39,167) is the commercial centre. There are 4 cotton mills and a large number of weaving establishments which are in a prosperous condition. Copper and brass vessels are also manufactured. Fine wooden toys are made here. The exports are cotton and silk fabrics (and fine cotton saris) besides rice, sheep and cattle, tobacco, spices, cardamoms, and the chief imports are salt and timber (from Burma). There is a large traffic in fire-wood.

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There is a Railway station on the MADURA—Bodinaickanur railway line and a big weekly market is held there on every Sunday. All kinds of food grains will be available for sale therein.

**BODINAYAKKAMER** is a municipality with a population of 27,036.

**Fairs:**—A large cattle fair and agricultural exhibition is held at Tallakulam, 5 miles off Madura during the Chistrai festival, (15th April to 10th May, 1939), another big fair is held at Tadi combu, 6 miles off Dindigul during Mathalambu festival (22 to 25th Oct 1939). Cattle fairs in Nilakottai taluk are Nilakottai, near Ry St Kodai Road, 13th March—20th March and 14th May to 21st May, Anthoor 10 April Sembatti, 5th May. Other fairs are held at Virapandi 10th to 20th May and Athi combai and Lakkayancottai, latter half of June.

### MALABAR DISTRICT

The MALABAR district has an area of 5,795 sq miles and is inhabited by 39,31,000 people. The annual average rainfall is 120".

Oil trade is the important industry and coconut oil, fish oil, guano, copra, fish guano, poonac are largely exported. Manufacture of coir yarn, rope and matting is also a great and expanding industry of the district. Cotton spinning and weaving is practised, there being 3 cotton mills in the district. Malabar teak is extensively used.

The crops valuable to the district are coconut, arecanut, pepper, ginger, plantain, etc. Arrowroot and tapioca are also grown. There are several tea, rubber and coffee estates. In 1938, 12,9000 acres were under tea in 50 tea estates and the production was 70 million lbs. Output of coffee in the district during 1938 was 1,287,485 lbs.

Fish canning is a growing industry. A factory has been started at BEYPORE for canning sardines, mackerel, sea, prawns and other varieties of fish.

**COCHIN** (population 22,818) is one of the most important ports between Bombay and Colombo. Madras and Tutcorin alone commanding a greater trade than Cochin in the Presidency. The port owes its importance to its natural position which has further been developed to suit the local conditions. Coasting trade during 1938-39 amounted to Rs 3.12 lakhs as against Rs 4.22 lakhs in 1937-38. Imports from Burma Rs 2.95 lakhs. Exports Rs 25 lakhs.

Imports and exports together in 1938-39—Rs 10.03 lakhs.

Coconut oil forms the principal articles of export. Oil brought here from the neighbouring districts is exported to the United Kingdom and the Continent. Rangoon also figured as a good purchaser. Coir, rubber, cashew kernels and mattings are shipped in very large quantities. The hill produces are nux vomica, pepper, etc.

Imports consist of cement, chemicals, drugs, earthenware and porcelain, fruits and vegetables, hardware, metal and ores, kerosene oil, paper and pasteboard, raw rubber, soap, stationery, sugar, tea chests, textiles, and vehicles, exports consist of coir, lemongrass oil, oil cake, raw rubber, ginger, pepper, tea, raw cotton, carpets and rugs and sandal wood.

**PALGHAT** (population 49,064) is a big city in the district.

**TELLICHERRY** (population 30,349) is situated on the seacoast about 15 miles away from Cannanore. From a commercial point of view the town occupies the foremost place in North Malabar and there are several European firms here. It is a great centre of coffee. The trade of the port consists chiefly in pepper and coffee from the estates in Mysore and Coorg, other exports being copra, sandalwood and tea. The port is also open during the monsoon owing to its advantageous position and the construction of sea wall of laterite with

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## 418 INDUSTRY YEAR BOOK & DIRECTORY, 1943

cement Coasting trade was valued at Rs 15,80,000 in 1938-39 as against Rs 18,74,000 in 1937-38

Figures of foreign trade follow —

	1934-35	1935-36	1936-37	1937-38	1938-39
	(in lakhs of rupees)				
Imports	47	29	15	189	34½
Exports	194	146	236	153	—

**CALICUT** (population 99,273) It is the headquarters of the district and a place of considerable trade, being one of the largest ports in the Presidency There is a cotton mill here Its coastal trade includes among other imports of coal, gram, pulse, paddy, rice, matches, raw cotton, twist and yarn, piecegoods and salt and exports of raw cotton, copra, coconuts, timber, cor, ginger, pepper, cordage Coasting trade at this port amounted to Rs 2,33 lakhs in 1938-39 as against Rs. 3,02 lakhs in 1937-38

The foreign trade consists mainly of imports of cement, dates, hardware, machinery, manures, iron and steel, rubber manufactures, soap and sugar, and exports of tiles, coffee, cor, raw cotton, groundnut, raw rubber, pepper, coconut-oil, cardamoms, fruits and vegetables and fish In 1938-39 chief exports were Tea (Rs 1,11 lakhs), coffee (Rs 10 lakhs), groundnut (Rs 39 lakhs), tiles (Rs 5 lakhs)

Figures of foreign trade follow —

	1934-35	1935-36	1936-37	1937-38	1938-39
	(in lakhs of rupees)				
Imports	681	552	378	115	353
Exports	160	177	229	223	—

**CANNANORE** (population 34,236) is a seaport and is famous for coating pieces The total value of its coasting trade amounted in 1938-39 to Rs 56½ lakhs

Figures of foreign trade follow —

	1934-35	1935-36	1936-37	1937-38	1938-39
	(in lakhs of rupees)				
Imports	4,08	1,75	45	15,64	19½
Exports	64	4	75	23	—

**PONNANI** (16,210) and **BADAGARA** are ports of some importance. The foreign trade of **BADAGARA** in 1938-39 was valued at Rs 12,46,000 and the coasting trade at Rs 52,54,000

**Fairs** —An annual cattle fair is held at Kizhooi in Kuzumbranad Taluk about 3 miles from the Payyoli Ry Station, generally during the first fortnight of December under the Supervision of the Veterinary Department

### NELLORE DISTRICT.

The **NELLORE** district has got a total area of 7949 sq miles with a population of 1,617,000 The prevailing mother tongue is Telugu. Rainfall averages 35.32" annually

Mica mining and the export of the varieties manufactured there form the chief industrial attraction in the district The mines are spread over the taluks of **GUDUR**, **RAPUR** and **ATMAKUR** Among them 'Shah,' 'Thellabodu,' 'Kalichedu' and 'D' mines are the best yielding **GUDUR** is the exporting centre Copper and iron ores were discovered in some parts of the district, but were not worked for China clay of a medium grade is mined on a small scale in **PRABHAGIRI-PATNAM** Ochre occurs at **SOMARAJUPALLI** of **Kandukur** taluk and dull garnet and Kyanite with a high iron content exist in and around **SYDAPURAM**. Kyanite also occurs in large quantities in **Chundi Estate** of **Kandukur Taluk** The back water swamp areas in **Salurpet**

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Taluk adjoining the Chingleput District yield very large quantities of lime shell which find an easy market in Madras. Steatite is regularly quarried near SYDAPURAM and utensils are manufactured for export to the Northern Circars. Slate formation also exist in the N. W. corner of the district adjoining Kurnool district.

Razors and the tape (rough cotton) are made in KANIGIRI, and wooden spoons and earthen ware in UDAYAGIRI. Fine lace cloth is also manufactured at VENKATAGIRI.

Large quantities of milled rice from KOVUR and NELLORE are exported to places all over the Presidency. Betels from VINJAMOOR and PODILI are also regularly exported to Hyderabad and Nagpur. Salt is manufactured in four centres TADA, KRISHNARATAM, ISKAPALLI and WOOLLAPALEM all being Government factories. Large quantities of Casuarina are exported to Madras by the Buckingham Canal as fuelwood from the coastal villages of Gudur taluk and Sulerpet Taluk. KULLUR and KALUVOY, about 45 miles west of Nellore, are famous for their business in corals.

Good species of cattle are found in Kandukur and Kavyali taluks where trade in cattle is carried on as a profession among some of the rich village families.

NELLORE (population 56,300) The town is situated on the southern bank of river Pennar, on the G. N. T. Road, 108 miles from Madras.

Fairs:—There is only one Agricultural Exhibition at Ranganayakulapet, Nellore, which is generally held in March every year during the festival of Sri Ranganayakulaswamy Vairu.

#### NILGIRI DISTRICT.

The NILGIRI district has an area of 982 sq miles and a population of 2,10,000. The indigenous tribes have their own dialects, but Kanarese, Tamil and Malayalam are in common use.

Tea and coffee are grown in the district. Cinchona is grown on the hill sides. 38,434 acres were under plantation of tea in 1938, yielding 15,583,245 lbs. of tea. 17,883 lbs were under coffee yielding 46 million lbs in 1939.

OOTACAMUND (population 29,989) —This is the chief town of the Nilgiris district and the summer headquarters of the Madras Government. The lands of these slopes are generally cultivated as garden land. There is a Government cinchona plantation here. The hills abound in woods of eucalyptus, acacia, cypress and pine.

COONOOR (population 18,781) Elevation 5,000 ft.—It is an ideal health resort. The soil is particularly good for roses.

KOTAGIRI (Elevation 6,000 ft) The station is chiefly occupied by planters and produces tea, coffee and oranges of superior quality in abundance. There is big game to the east of Kotagiri.

WELLINGTON (Elevation 5,500 ft)—This is the Convalescent Depot for the British troops in Madras. The Govt. of India Cordite Factory at Aruvankadu adjoins the Wellington Cantonment.

GUDALUR TALUK —There are many flourishing tea estate in this taluk and a large area of forest in which game abounds. Though the gold is known to exist it has not yet been discovered in workable quantities.

#### PONDICHERRY.

PONDICHERRY is the headquarters of the French Possessions in India and is situated about 150 miles south of Madras. It is the centre for exporting groundnuts and has three up-to-date cotton mills equipped with 72,944 spindles and 1740 looms, all the products being exported to

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the French Possessions There is a bonemill factory and all the different mineral oil companies have their storage tanks here

The chief exports are shelled groundnut, textile manufactures, rice, onion, mangoes, provisions, living animals, earthenware, betelnuts, and bone-meal manure The principal articles of import are raw cotton, cotton manufactures, sugar, metals and ores, betelnut, paper, flour, coffee, cement, and other building materials, wines and spirits by sea and coal by land Gunnies, and petroleum form the other imports by land The imported spirits are free from any duty and the town has therefore an increasing trade in oils, spirits and wines

### RAMNAD DISTRICT.

The RAMNAD district has an area of 4,838 sq miles and a population of 19,76,000 Rainfall averages 31" annually

Of the industrial crops paddy occupies a comparatively small area but groundnut and raw cotton are produced here to a very considerable extent mainly for export The season for these products commences from April and continues as far as December

Area under crops in 1938-39 —Rice 328,746 acres, Jowar 81,880 acres, Bajra 158,554 acres, Marua 86,769 acres, other grains and pulses 11,940 acres, sesamum 33,222 acres, castor-seed 669 acres, groundnut 59,563 acres, coconuts 8,689 acres, Total oil seeds 102,181 acres, condiments and spices 28,789 acres, other sugar bearing palms 3,423 acres, cotton 197,574 acres, tobacco 2,017 acres, fodder crops 49,008 acres, fruits and vegetables 12,927 acres

The chief industries of the district are pressing ginning and weaving of cotton, and PARAMAKUDI (16,113), ARUPPUKOTTAI (population 33,848), RAMNAD are places important for the weaving industry and the sale of cloths In these places ordinary dhoties and saries both of silk and cotton are woven Paramakudi and Ramnad saries are very famous and are known in other districts as "Madura Cloth" At ARUPPUKOTTAI there is not a house without a loom At this place a special kind of sari is manufactured with the mixture of cotton and silk or art-silk These goods have been sent on a very enormous scale to Colombo, and other places through Madras, Tuticorin and Dhanuskodi Extracting oil from groundnut is largely carried on and silk weaving is practised at PARAMAKUDI and EMMANESWARAM Dyeing of fabrics is carried on extensively Brass and bronze vessels are manufactured at PUDUVAYAL and coil at SINGAMPUNERI in Tirupattur taluk Tiles are manufactured at PUDUPATI in Srivilliputtur after the Mangalore pattern There are oil and cotton mills An up-to date cotton spinning mill has been opened at Rasapalayam

Tobacco and oil cakes are also exported from here to foreign ports Negapatam, Tuticorin, Madras and Pondicheiry are the chief ports through which these goods are sent Almost the whole groundnut crop and tobacco produced in these parts are exported through Negapatam and Madras only

Machineries, metals, cotton manufactures and other multifarious necessities and luxuries come here from Japan and China, England, America and Austria Plenty of arecanuts come to the markets from Java through Colombo and Dhanuskodi

KEELAKADU is famous for gingelly seed PARAMAKUDI, SRIVILLUTHUR, VIRIDUNAGAR (population 33,081), are also other places of importance for this seed Generally the local produce is reserved wholly for local consumption and the additional supply is obtained from other parts But the gingelly seed of KEELAKADU is

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used by almost all the country mills of RAMNAD TOWN (population 16,817).

The local merchants obtain ghee from Trichinopoly, Salem and Coimbatore districts. Tirumangalum ghee is also coming to the market in tins.

Groundnut oil is very greatly used by almost all classes of men in these parts. VIRIDUNAGAR, ARUPPUKOTTAI, and SATTUR are some of the places which supply groundnut for extracting groundnut oil. This oil is often mixed with the gingelly oil and sold as gingelly oil at a cheap rate. Coconut oil is generally not very much used by the people here but greater part is consumed by the people of Tinnevely district.

The chief ports are PAMBAN, KILAKARAI, TONDI, DEVIPATNAM, DHANUSHKODI. The total value of the foreign trade claimed at DHANUSHKODI port in 1938-39 was Rs 209½ lakhs. Exports consist chiefly of turmeric, fish, fruits and vegetables, rice, leather, bones, brass manufactures, oil cakes, tea, piece-goods, carpets and rugs and cigarettes, while the chief imports are coffee, fresh fruits and vegetables, apparel, hardware, raw hides, raw skins, betelnuts, sugar, cotton goods, and gunny bags. There is almost no coasting trade.

Imports at TONDI during 1937-38 amounted to Rs. 5,48,000.

TIRUPATTUR (10,644), DEVAKOTTAI and KARAIKUDI (21,672), are the centres of trade and VIRUDUNAGAR, SIVAKASI (20,393), and SATTUR (15,212) are the chief centres of cotton trade. SIVAGANGA has a population of 11,383, RAMESWARAM is a place of pilgrimage.

**Cattle fairs:**—(i) Kenniseri cattle fair, Sattur Taluk—about 3 miles from Tulukkapatti Railway station, held in the months of May-June each year, (ii) Kalayai Koll—Sivaganga Taluk Temple Festival held during May-June when a cattle fair is held.

#### SALEM DISTRICT.

The SALEM district occupies an area of 7,259 sq miles and is inhabited by 28,71,000 persons. Average annual rainfall amounts to 35". Crops raised are ragi, and cholam, cambu. Rice, plantain, sugarcane, arecanut and coconut are also grown. Groundnut is the industrial crop. Coffee and rubber (at the Shevaroy Hills), indigo and mulberry are also grown. Teak, blackwood, acha, satinwood, tamarind trees (at the foot of hills) are found here. There are iron and chrome ore in KANJAMALAI, magnesite ore near Chalk hills, and mica ores near Edapadi, at HOHANICKAL on the Kaveri in Dharampuri taluk and in KALLIMPALAI hills near Namakkal, of which the latter is being worked to supply electricity to Trichinopoly. 8,901 acres were under coffee in 1938 yielding 3,386,153 lbs of cured coffee.

Among other minerals mention may be made of gold, iron, salt-petre, corundum, rubies and crystalline limestones.

The chief industry is weaving (pure silk and good white-cloth in every village and at Salem city), carpets and coarse blankets are woven by shepherds in several places in the district. Sugar and jaggery are manufactured in some parts and brass and copper vessels are manufactured at RASIPUR. There are pot-stone quarries in the TIRUCHENGODE Taluk.

The exports are rice, wheat, castor seed, castor oil, ghee, cloth, betel leaves, plantains, arecanuts, tamarinds, mangoes, coffee and cattle, the chief imports are pepper, tobacco, yarn, groundnuts, etc.

Sheep, poultry, pigs, and cross-bred cattle are reared at HOSUR.

SALEM City (population 102,179) It is a large weaving centre with over 30,000 looms, is famous for its cloths which are used all over the Presidency.

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## 422 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Important centres in the district (besides Salem City) are DHARAMPURI (14,815), RASIPUR (14,438), SENDAMANGALAM, KRISHNAGIRI, ATUR and TIRUCHENGODE.

### TANJORE DISTRICT.

The TANJORE District is thickly populated, having a population of 2,564,591 in an area of 3,742 sq miles. The climate of the district is healthy. The average annual rainfall is about 44". Language Tamil.

Metal work and weaving of various kinds are the chief industries. Silk and cotton are woven in TANJORE, AYYAMPET, KUMBAKONAM and KORANAD. The artisans of Madura make brass, copper and silver ware, bell-metal (at PISANATTUR), pith models and toys. Metalwares are manufactured in KUMBAKONAM and MANNARGUDI, and jewellery, pith toys, lace work and embroidery at TANJORE. There is a salt factory at AGASTHIAMPALLI.

The chief exports (inland) are rice, betel-leaf, groundnut, oil, metal vessels and cloths and imports are gingelly and cotton seed (Mysore), kerosene oil, tamarind and timber. Ghee, chillies, pulses, lamp oil are the other imports from neighbouring districts.

Paddy, betel leaves, coconuts and plantains grow in abundance in the Kumbakonam taluk, of them coconuts and plantains are exported to adjacent districts.

In Anikaram Chattram rattan articles and mats are manufactured. Mats are woven in the villages near Muthupet. Fine paper models of dogs and other animals, soldiers, famous personages, etc., to life size are done at Kollitirumalam Ambal Post, 2 miles east by Punthottam Railway Station in Nannilam Taluk.

The lace and ordinary handwoven dhuties from Thugili, a village attached to the Kumbakonam Taluk is unsurpassed for their fine texture, i.e. of more than 100 counts.

TANJORE (68,683), is the headquarters of the district. There is a big temple at Tanjore which is sacred to the Hindus. Eye glasses are shaded out of vallam pebbles. Jewellery work on copper and brass plates is being done.

NEGAPATAM (52,906) is the principal seaport of the district, carrying a large trade with Ceylon, the Straits Settlements and Burma. It exports cotton piecegoods, livestock, ghee, cigar, tobacco and skins. Exports of groundnuts during 1938-39 amounted to 43,348 tons and were valued at Rs 57½ lakhs. Imports through Negapatam are arecanuts, timber, cotton piecegoods and gunny bags. The imports consist chiefly of apparel, cigarettes, furniture, gums, betelnuts, cotton goods.

Table below illustrates the sea borne trade done at the port —

	1934-35	1935-36	1936-37	1937-38	1938-39
	(in lakhs of rupees)				
Foreign Trade	75	75	1,30	1,57	1,37
Coasting Trade	32	33	40	27	27
Total Trade	1,07	1,08	1,70	1,84	1,64

MAYAVARAM (population 32,665). The Thula festival held in the months of October and November every year attracts a large number of pilgrims. The once famous industry of saree-weaving has dwindled almost to nothing on account of outside competition.

KUMBAKONAM—It is noted for its temples. Silk sarees, lace cloths, brass wares, jewellery, etc. are growing in importance. Manufacture of lead vessels is another rare industry in this town. A confectionery factory has been lately established in the town.

The dyeing industry at Dasasaram, a suburb of the Kumbakonam Town, is also noteworthy.

**Manufacture Pickles & Chutneys at Home.** INDIAN PICKLES, CHUTNESY & MORABBAS explains the process. Industry Book Dept., Calcutta

Mahamaham festival, coming once in 12 years in March attracts more than 2 lakhs of pilgrims and is the venue of an exhibition of industrial products and handicrafts

PAPANSAM Taluk—The important industries in the Taluk are mat and silk weaving in AYYAMPET and AMMAPET Towns. The chief exports by land are betel leaf, rice, groundnut, mats, and silk cloths

VEDARANYAM is famous for its temple and is a sacred place of pilgrimage for the Hindus. It adjoins Point Calmère

MUTHUPET UNION town (population 7,799)—A fishing centre. There is a big lagoon near this place surrounded on all sides by shrub jungle

MANNARGUDI (22,764) and TIRUVALUR (23,246) are centres of trade, TRANQUEBAR, ADIRAMPATNAM (10,893), TIRUMULAVASOL, AMMARATNAM are seaports. ADIRAMPATNAM has considerable foreign and coasting trade. Figures for its foreign trade in 1937-38 were imports Rs 32,000 and exports Rs 7,83,000. Imports at Tranquebar during 1937-38 were valued at Rs 71,000

Fair:—A big cattle fair is held at NEERATHANALLUR, 6 miles north of Kumbakonam, in February every year.

### TINNEVELLY DISTRICT.

The Tinnevelly district is well-clothed with forest, having an estimated area of 504 sq miles of Ghaut forest. Its area is 4,325 sq. miles, population 22,46,000 and language, Tamil. Average annual rainfall is 27."

The chief crops grown are cholam, cambu, paddy, cotton, samai, gingelly, palmyra palm (collection of its leaves constituting the means of livelihood of many people of the district). Both tea and coffee are cultivated in the district, the yield during 1938, being 58,128 lbs and 18,529 lbs respectively

The chief industries of the district are pressing, ginning, spinning and weaving of cotton and manufacture of jaggery. Cotton goods are manufactured in the mills at TUTICORIN, KOILPATTI (population 10,589) and PAPANASAM, VIRAVANALLUR (population 17,682) and KALLIDAI-KURCHI (117,074) are also important weaving centres in the district. Brass and bell-metal industries thrive at MANNARKOVILI and VAGAIKULAM. There are a large number of cotton ginning and pressing factories. Mats of Koil grass of fine texture are manufactured in AMBASAMUDRAM taluk, the finest mats being those manufactured at PATTAMADAI. Extraction of fibre, manufacture of mats and baskets from palmyra leaves, fish curing, sugar refining, metal work and salt making are other minor industries of the district. Pearl and chank fisheries in the Gulf of Mannar are undertaken by Government. Population of AMBASAMUDRAM is 15,602

The chief exports from TINNEVELLY are cotton, jaggery, chillies, tobacco, palmyra fibre, salt, dry salted fish and cattle and the imports are cotton twist and yarn, piece-goods and kerosene oil.

The three important seaports in the district are TUTICORIN, KULASEKHARAPATNAM and KAYALPATAM. Road traffic is considerable. Weekly markets are held for collection and distribution of articles of trade. The district is connected with the Travancore State by the South Indian Railway

TINNEVELLY (the head-quarters) has a population of 57,073. Jaggery and sugar trade here is considerable. Some timber trade exists (from Shencottah in Travancore)

PALLAMKOTAH (population 56,990) is a big town

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**TUTICORIN** (60,935) is one of the largest ports in the Presidency. Cotton, palmyra fibre and sunn hemp, etc are available. There is a cotton mill here.

Principal articles of export are raw cotton, live animals, coffee, cotton piece-goods, drugs and medicines, oil-cake, rice, hides and skins, spices, and tea. Raw cotton makes up nearly half the total value of the export trade of the port which conducts about three-fourths of the trade of the Presidency in this article. Cattle and goats are exported to Ceylon while cotton is sent to many parts of Europe and Asia. Tuticorin has the largest export of chillies in the Presidency, while it comes next to Cochin in value of its export trade in tea. A large quantity of rice is annually sent to Ceylon. The chief items of import are rice, grains, cotton twist and yarn and piece goods, petroleum, machinery, hardware, and cutlery, arecanuts and timber.

Figure of foreign trade follow.—

	1934-35	1935-36	1936-37 (in lakhs of rupees)	1937-38	1938-39
Imports	1.12	.97	.92	2.14	1.63
Exports	2.80	2.10	2.66	3.31	2.51

Figures of coasting trade transacted at the port of Tuticorin during the last five years follow —

	1934-35	1935-36	1936-37 (in lakhs of rupees)	1937-38	1938-39
Imports	3.51	4.02	3.07	2.49	1.50
Exports	1.84	2.37	1.90	2.19	2.02

**KULASEKHARAPATNAM** (population 11,114) —The port handles considerable foreign trade. Its coasting traffic consists chiefly in imports from other Madras ports and exports to them. In 1938-39 the total foreign trade of this port amounted to Rs 86,000, imports claiming Rs 16,000 and exports Rs 70,000.

**BHANA-TIRTHAM** is another place of pilgrimage. There is a grand waterfall at the foot of the Western Ghats and 12 miles from Ambasamudram.

Other important centres of trade are —**TENKASI** (27,338), **KADAYANALLUR** (23,819), **PULIYANGUDI** (21,137), **SURANDAI** (15,728), **TIRUCHENDUR** (15,328).

### TRICHINOPOLY DISTRICT.

The **TRICHINOPOLY** district is dry and rather healthy. Average rainfall is 38". The area of the district is 4,319 sq miles, population 2,195,000, and language Tamil.

Chief crops are rice, jowar, bajra, marua, grains and pulses, sesamum, groundnut, condiments and spices. Cotton grows abundantly in the district.

The chief minerals are gypsum and phosphatic nodules.

Weaving is the chief village industry and there are 10,000 looms in the district. Cigars are manufactured in the town of **TRICHINOPOLY**. Cotton and silk cloth are woven. Cement manufacture is a new industry in the district.

**ARIYALUR**, **PERAMBALUR** and **TURAIYUR** are important trade centres. Other important places in the district are **LALGUDI** where brass and copper idols are made, **KULITHALI**, **UDAYARPALAIYAM**, **SRIRANGAM** (26,672), famous for its Vishnu Temple.

The chief exports are paddy, cotton, groundnuts, plantains, coconuts, betel leaf, etc., silk and cotton turbans, fine and coarse cotton fabrics, carpets, blankets, bangles, shoes, tanned skins, castor oil, oil cake, saltpetre, stone, cigars, soap, buffaloes, sheep and goats. The

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most important of the imports are good cloths of silk and cotton both for male and female wear, carpets, household vessels and utensils. raw hides, bangles, glassware, raw tobacco and ploughing cattle

**DALMIAPURAM**—The town has been named after Seth Ram Krishna Dalma, under whose guidance a cement factory has been opened here

**TRICHINOPOLY** (population 159,500) constitutes the third largest city in Madras. It is a centre of considerable trade. It is the centre of cigar-making industry. There are a large number of cigar factories here. The raw material is obtained from the town of Dindigul in the district of Madura and some parts of the Salem district. For wrappers, the manufacturers obtain leaves from Java and Sumatra.

The district is well served by railways. The distance to Madras has been shortened by 50 miles by the Villupuram-Trichinopoly line.

**Fairs**:—Panguni Uthirai Festival at Chettikolam, held in March and April; car festival at Siruvachur in May and June, at Karur during Purattasi. The last named fair attracts a large number of pilgrims. Pilgrims flock every year to the Subramanya Temple at Chettikolam on a small hill for the Panguni Uthirai festival held in March and April, and Siruvachur where to the sacred temple of Madura Kalliammanu pilgrims similarly congregate every year in May and June during the Car festival. Kaliyaperumal festival is held at Kallankurichi 3 miles each of Ariyalur in the month of April, and attracts thousands of pilgrims.

#### VIZAGAPATAM DISTRICT.

The district of VIZAGAPATAM lies on the western shore of the Bay of Bengal over an area of 4,568 sq miles and has a population of 38,46,000 who speak Telugu. Average rainfall is 40".

All the principal food crops are transplanted in this district and except in PALKONDA, double crops of paddy are rare, the wet fields being utilised after the removal of the paddy for growing green gram or a variety of garden crops and vegetables. Numerous varieties of paddy, differing from taluk to taluk, are grown. Coffee is grown on a small scale, output during 1938 being 4,670 lbs.

The art industries of the place are insignificant. Ornamental articles of ivory tortoise shell and horn are made. Golconda contains the largest number of looms and handmills. Tanning of hides and skins is carried on in several tanneries round VIZAGAPATAM. Manganese industry is carried on by the Vizianagram Mining Co., at NELLIMARLA, GAJAPATINAGARAM and CHIPUMPALLI.

VIZAGAPATAM (57,303), the head-quarters of the district, is a flourishing seaport. It has recently been declared a major port to meet the demands of the Central Provinces. The chief exports to Vizagapatam include manganese, groundnuts, myrobalans, hides and skins. Exports of groundnuts during 1939-40 were valued at Rs 11.90 lakhs. There is considerable trade in coolie rice with Burma during the seasons of plantation and harvesting. The chief imports are cotton twist and yarn and piece-goods, iron, timber, etc. But the place receives its imports mainly through Madras and Calcutta. There is a sugar factory here. It has both foreign and coasting trade. Chief import is sugar. Myrobalan, manganese ore, groundnut, Niger seed and jute are the chief exports. During 1939-40 the exports of manganese ore were valued at Rs 65 lakhs as against Rs 62 lakhs in the previous year. Exports of oil cakes during 1939-40 were valued at Rs 10 lakhs. The nature of foreign trade transacted at this port will appear from the following table:—

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	1934-35	1935-36	1936-37	1937-38	1938-39
			(in 1,000 rupees)		
Imports	18,11	16,48	26,30	29,88	26,68
Exports	67,31	1,23,32	1,45,02	2,50,82	1,14,10

The aggregate value of the coasting trade done at Vizagapatam amounted to Rs 40 lakhs during 1939-40 as against Rs 40 lakhs in 1938-39.

**ANAKAPALLI (23,376)** —It is a municipality on the M S M Rly, line. It is a growing centre of trade in agricultural produce. It is noted for manufacture of jaggery. The lands are generally fertile and are commanded by Sarada River canals. The main crops grown are sugarcane, gingelly and horsegram. The main products exported are jaggery, gingelly, groundnut oil, horsegram and mangoes. The main imports are rice and oil. There are two rice mills, 3 oil mills and 1 sugar factory. A cattle fair is held on every Saturday at TUMPALA and on every Monday at THALLAPALEM.

**PARVATIPUR (population 17,434)** —The place is a centre of trade with the hill and low countries. Hill products, e.g., tamaind, ginger, mustard, turmeric and adda leaves are the chief exports. The imports are salt and rice. Bell-metal works are a speciality of this place.

**BOBBILI** —Cattle fairs are held at PEDARAMAPURAM, BALJI PETA and VUTTARAVILLI villages of this taluk. There are two sugar factories, one at BOBBILI and the other at SITANAGARAM. There are no places in this taluk, where agricultural and industrial fairs are held. Big shandies are held at BALJIPETA, PEDARAMPURAM and VUTTARAVILLI on every Friday, Saturday and Wednesday, respectively. The principal exports of this taluk are groundnut, tamarind, jute and hides and the imports are rice and oil seeds from Jeypore and rice and pulses from Raipur.

**LINGAMPETA** —This is also known as Lingampathi. This lies between Golugonda and Krishnadevipeta. An annual fair is held on Telugu New Year's Day. Brass and brass vessels and cloths are sold.

**BALIGHATTAM** —A religious place for Hindus. There is a Siva's temple on a hill near the village. Every year an annual fair is held on Mahasivarathri which attracts a large congregation. Brass, bronze vessels and all fancy goods are sold.

**BIMLIPATAM** —It is a small port. It is well known for jute of an inferior quality and the name stands for one of its trade varieties. It is probably hemp (sunu), and wrongly called jute. The chief exports from the place are Niger seeds, groundnut, jute and myrobalans. Exports of groundnut during 1938-39 were valued at Rs 24 lakhs and during 1939-40 were valued at Rs 18 lakhs. The principal imports are jute from Chittagong and Mangalore tiles from west coast. There are two jute and gunny bag factories managed and established by the Europeans. Though small, the port has both foreign and coastal trade of some importance. Foreign exports during 1939-40 were valued at Rs 22 lakhs as against 37½ lakhs in 1938-39 and Rs 37 lakhs in 1937-38.

Coastal trade done at the port is not fair owing to War conditions. This was valued at Rs 5½ lakhs during 1938-39 as against Rs 9 lakhs in 1937-38 and for 1939-40 the coastal trade is valued at Rs 4,000 only.

There are no important agricultural, industrial and cattle fairs worth mentioning in this taluk.

**VIZIANAGRAM** Natural resources—nil. Crops Paddy, Ragi, groundnut and jute. Important exports of this place are groundnut,

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oil, jute bags and jute and skins A cattle fair is held from 8 A M to 3 P M on every Sunday

**PALAKONDA** (population 17,434) —Paddy, sugarcane, groundnut, and jute are cultivated on a large scale. A cattle fair is held at Ungai-ada on Wednesday from 9 A M to 5 P M

**YELLAMANCHILI** —There are no important industries in this taluk except lacquer work at Etikoppaka Cattle fairs are held on every Thursday at Yellamanchili, on every Wednesday at Nakkapalli, on every Monday at Rayavaram and on every Friday at Atchutapuram

**SRUNGAVARAPUKOTA** —Alamanda village is situated 3 miles away from Alamanda Railway Station on the B N Rly It is one of the largest mango fruit exporting centres in the district, where several varieties of mango fruit are available during the season for wholesale trade There are two cattle fairs one at Alamanda and the other at Kothavalasa, which are held on every Monday and Tuesday, respectively

**NARASAPATNAM** (population 14,005), is a centre of trade with the hills to the north

**SIMHACHALAM** is a famous place of pilgrimage during the Kalyanam festival in April and Chandana Yatra in June It is only 10 miles from Vizagapatam

**PUNYAGIRI** is another sacred place of pilgrimage during the Shivaratri festival

#### WEST GODAVARY DISTRICT.

The district of WEST GODAVARY lies to the west of Godavari East district The language spoken is Telugu Population 13,79,000

Chief crops in the district are rice and pulses Other crops include jowar, grains and pulses, sesamum Fruits and vegetables, condiments and spices are grown on a large scale Coconut, condiments and spices like betel, arecanut, turmeric, etc are grown on a quite considerable extent According to the latest information available coconuts are grown over 9,632 acres Condiments and spices are grown over an extensive area of 13,612 acres

The chief exports from the district are rice and paddy Spices are also sent out of the district

The district claims of flourishing cloth weaving and lace making industry But the biggest industry in the district is rice milling, there being about 100 rice mills Bricks and tiles are manufactured to some extent There is also a jute press at ELLORE Brass vessels are made at PALACOLE, which is also a good trade centre

**PENUGONDA** has a population of 15,619

**ELLORE** (population 57,342) —The grain trade of the place is noteworthy Cheap carpets of foreign design are made here and it has a good trade in them Finer qualities of carpets are also obtainable if previously advised There is a jute mill in the town The place is connected by canal with the Godavari and Krishna rivers and attracts a good deal of trade

## MARKET PLACES OF BIHAR

**T**HE province of Bihar comprises Bihar proper and Chotanagpur which differ widely in their physical features. The total area of the province is about 83,000 square miles and its population according to 1941 Census is 36,340,000 divided as follows. Bihar 28,824,000 and Chota Nagpur 7,516,000.

**Bihar** extends from the foot of the Himalayas to the bank of the Ganges and is separated from Orissa by the crystalline plateau of Chotanagpur. It is an alluvial plane watered by the Ganges and its tributaries Sone, Gondak, Gogra, and Kusi. It suffers from extreme temperatures. The only marsh is in Champaran, covering an area of about 140 sq miles. Trees are plentiful in the northern parts.

**Chotanagpur** is bounded by the Rajmahal Hills in the east and comprises an upland tract of hills and plateaus, covered with forests, the area of which is 1,759,100 acres. The forests are practically all of the deciduous type with Sal as the dominant species. Other common species of economic importance comprise *petiocalpus*, *anogeissus latifolia*, *bursera serrata*, *adina cordifolia*, *acacia catechu*, *dendrocalamus strictus*, *bambusa arundinacea* and others too numerous to specify. Teak is indigenous in one or two areas in the south-eastern part of the Plateau. It is a tangled mass of rock and forest. The sub-province is watered by the Damodar, the Kassar and the Subarnarekha.

**Forests** —The forests of Bihar under Government control are about 3,700 square miles in extent under a conservator and his staff.

**Crops** —Total area cultivated in this province is about 30 million acres of which rice claims 10 million acres, wheat 1,096,000 acres, castor seed 33,000 acres, barley, 1,298,000 acres, jowar or cholam, 74,000 acres, bajra or cambu, 59,000 acres, maize, 1,407,000 acres, sugarcane 5,08,000 acres, sesamum 118,000 acres, gram 1,444,000 acres, linseed, 535,000 acres, rape and mustard 487,000 acres, jute 282,000 acres, cotton 40,000 acres, tobacco 108,000 acres, condiments 62,000 acres, fruits and vegetables 363,000 acres, ragi 546,000 acres, other food grains 398,000 acres.

Rice is grown wherever rainfall is abundant, i.e., in N Bihar and in the valleys of Chotanagpur. In the hill sides millets and pulses are raised. In W Bihar the practice of growing several crops in the same field together is still carried on, e.g., gram, wheat, sesamum and linseed are grown together in the same field at the same time.

Maize is grown in Bihar and Chotanagpur, wheat, barley, gram, marua, jowar, bajra, are also grown. Cereals and pulses receive more attention than others. Peas, kalai, kulthi, khesari, arahai, gondli, kodan, urid are the cereals grown. Tea is grown in the Ranchi and Hazaribagh districts. Among other crops special mention should be made of tobacco which is of great economical value to Bihar. Lac is found all over Chotanagpur, Santhal Parganas, etc. Indigo cultivation is dying out gradually.

Jute is grown in Northern Bihar. Chillies of N Bihar and tobacco of the Monghyr district are celebrated. Oilseeds are largely cultivated.

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specially til, castor and sarguja Poppy is grown in W Bihar and Chotanagpur

Sugarcane is largely cultivated in N Bihar and a large number of sugar factories (about 31) have grown up here The sabai grass of Santhal Paiganas and Ranchi are sought after by paper mill owners A remarkable feature has been the increase in sugarcane cultivation and expansion of the total sugar industry in the province Sugarcane valued at about Rs 18½ lakhs is now grown in the area irrigated by the canals Several sugar factories have recently been established, that at Dehri on Sone being the largest in India

Fruits and vegetables of various kind grow in the province These include mangoes, litchies, cauliflower, cabbage, radish, potato, etc. Mangoes of Darbhanga and lichees of Muzaffarpur are famous Cauliflowers of Bihar have good reputation

The following table shows the area of the chief crops under cultivation during the last five years —

	Average of preceding 5 years	1937-38	1938-39	1939-40	1940-41
Rice	10,026	9,949	9,515	9,580	9,211
Wheat	1,216	1,142	1,129	1,093	1,096
Linseed	550	587	576	560	535
Rape and mustard	533	538	498	505	437
Sugarcane	447	300	375	441	508
Jute	445	315	265	282	282
Sesamum	126	115	114	114	118
Tobacco	140	140	142	104	108
Cotton	32	31	43	42	40
Castor seed	42	33	34	34	33

The districts where the crops grow abundantly are given below  
Rice—Bhagalpur, Muzaffarpur, Ranchi, Wheat—Shahabad, Monghyr, Muzaffarpur, Gaya, Barley—Champaran, Muzaffarpur, Saran, Jowar—Patna, Bajra—Santhal Parganas, Ragi—Darbhanga, Bhagalpur, Maize—Muzaffarpur, Monghyr, Saran, Gram—Shahabad, Gaya, Patna, Monghyr, Cereals and pulses—Shahabad, Gaya, Monghyr, Linseed—Shahabad, Champaran Sesamum—Palamau, Rape and mustard—Purnea, Bhagalpur, Darbhanga, Sugarcane—Saran, Muzaffarpur, Cotton—Ranchi, Saran, Jute—Purnea, Tobacco—Muzaffarpur, Purnea, Darbhanga, Fruits and vegetables—Saran, Muzaffarpur

**Son Canal.**—Over 1½ million acres, of which over 1 million are cultivable and 870,000 irrigable, are irrigated by this system During the last five years, nearly 600,000 acres a year have been irrigated Rice is the principal crop, occupying 4/5th of the entire area irrigated by the Son canals

**Irrigation.**—Total area irrigated in 1940-41 amounted to 5,243,000 acres of which area irrigated by Government canals is 730,000 acres, by private canals 916,000 acres, by tank 1,410,000 acres, by well 555 000 acres and by other sources 1,632,000 acres There is provision for irrigation in the Shahabad and Gaya districts

**Cattle.**—Patna, Sitamarhi, Bachaur, Bhagalpur are the breeds of cattle A large number of cattle and horse fairs are held in the province, noted amongst them being those at SONEPUR and SITAMARHI

**Minerals.**—The province is very rich in minerals, specially the Chotanagpur Division Coal is the chief mining article, Dhanbad, Bokaro, Giridih, and the Jharia field being the most important.

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There is also a large coal supply in the district of Palamau. It is also distributed in the following areas, viz., Ramgarh, Karampara North Valley, Chope, Itkohori, Amremga, Hutar, Daltonganj, Rajmahal Hills, Sahajori and Kundit. During 1939 Bihar was responsible for 14,787,661 tons of coal which represents about 60 per cent of the total production of coal in India. Gold-bearing sands are met with in the river beds of the Subarnaekha, Hazaribagh and surroundings supply the world's demand of mica. Mica is also quarried in the Gaya district. The centre of the industry is however at Giridih and the products are sent down to Calcutta. North Bihar is the chief source of saltpetre which is obtained on a large scale in Patna Division and Monghyr. Salt is quarried at Monghyr and ballast in the Rajmahal hills. Abundant limestone is available at Monghyr and also in the districts of Palamau, Singhbhum, Gangpur, and Santhal Parganas. Singhbhum has extensive iron deposits which are worked at Jamshedpur by Tata Iron and Steel Works. In fact the Singhbhum mines produce nearly the whole of the iron ore in India. Granite occurs in Gaya and Hazaribagh and soapstone is found at Manbhum. Copper and lead ores are also found. Manganese is mined to some extent. Deposits of slate, steatite, fireclay, china clay, sandstone and apatite occur in various parts of the province. Singhbhum and the neighbouring State of Kharasawan are the principal sources of kyanite in India. Singhbhum also produces small quantities of gold.

**Minerals in Chotanagpur.**—Gold and silver have been found to exist in the plateau within Dhalbhum sub-division of the Singhbhum district and in the Patkhai area of Manbhum district. Copper, tin and lead can be found all over the plateau. Iron occurs in huge quantities and manganese is found to exist in the Gangpur State, Keonjhar and in Singhbhum district. Nickel is found associated with the copper-belt of Singhbhum and also in the gold ores of Manbhum. Chromium, molybdenum, tungsten and uranium are also to be found here. The other useful minerals are (1) Building stones, (2) Brick and tile clays, (3) Cement, (4) Limestone, (5) Slate.

The plateau contains rich deposits of refractories, ceramic and glass making materials, e.g., pottery earth and clays, china-clays, felspar, quartz, fire clays, silica bricks, magnesite, silimanite, kyanite, graphite, etc. Ninety-six per cent of the output of silimanite and kyanite is now obtained from Kharisan and Seraikella State. They are also found in Manbhum. There are rich deposits of bauxite and mica. Singhbhum contains a rich deposit of asbestos also. It is estimated that in the Chota Nagpur Plateau the reserves of iron ore amount to many hundred—possibly to thousands of millions of tons.

The copper fields in Singhbhum offer immense possibilities. Bauxite is found all over the plateau. From the Lohaidaga area bauxite is being carried and being exported to Scotland. In the production of manganese it holds the 3rd position next to Central Provinces and Madras—India supplying practically 50 per cent of the world's manganese requirement. The chromite is mainly found in the districts of Singhbhum and Manbhum. Tin has been found in the district of Hazaribagh, although no attempt has been made so far to work the ores.

**Handloom Industry.**—Net import of cotton yarn, consumed by the handloom weavers of the province was over 30 million pounds. There was remarkable improvement in the texture of woven fabrics and the variety of patterns produced. One great defect of the hand-woven fabric is the lack of finish.

**Industries:**—Cloth weaving is the chief home industry. Tassar silk is woven in Bhagalpur. Cotton carpets and also woollen carpets

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are woven at OBRA in the Gaya district. Silver and gold work of KHARAGPUR in Monghyr are famous. Iron workers of those place are also noted. Stone carving is done at GAYA, glassware at PATNA and bracelets of coarse glass are made at BHAGALPUR. Carpenters of Bihar are skilled workmen. Potteries are made in the Bhagalpur and Manbhum districts. Oil mills flourish greatly in the districts of Santal Parganas and Bhagalpur. Rice mulling is also practised on a large scale, there being 65 mills in the province.

**Major Industries.**—The biggest single industry in Bihar is the iron and steel industry at Jamshedpur, having a total production of 1,140,000 tons of pig iron and 1,018,000 tons of steel in 1939-40. Ferro-manganese was produced to the extent of about 10,000 tons.

Number of sugai factories working with cane in Bihar amounted to 31 during the season 1941-42 and the quantity of cane crushed approximated 1,133,600 tons as against 2,494,300 tons in 1940-41, and the quantity of sugai produced approximated 1,173,000 tons in 1941-42, against 245,100 tons in the preceding season. Percentage of sugar recovery in the province was 10.35 showing an increase of 0.49 per cent over that of the preceding season. Output of gur was 374,000 tons in 1941-42 as against 93,500 tons in 1940-41. Power alcohol is distilled in some of the most up-to-date factories.

There are 3 jute mills in Bihar with 18,080 spindles and 859 looms. Paid up capital invested in the industry in Rs 39 lakhs. Jute mills have lately been founded at KATIHAR and DARBHANGA. There are only two cotton mills in the province, these being equipped with 269 looms. One paper mill has been started recently.

Another big industry of recent origin in the province is cement manufacture at DALMIANAGAR where cement of good quality is produced. Factories have been established side by side for the manufacture of paper, sugai and chemicals. A factory has recently been started at PHULWARI SHAREEF for the manufacture of cycles and cycle parts.

**Factories:**—In 1939 there were 394 factories in Bihar, the most important of them being iron and steel factories at Jamshedpur, lac factories, sugar mills, oil mills, match factories, cement and lime factories, rice mills, pottery works, etc. The largest number however was that of rice factories.

**Industrial Possibilities:**—Bihar is well placed for starting glass, pottery and ceramic industries. The raw materials for these industries are found in plenty in the province. Bihar has got also chances for starting chemical industries including manufacture of sulphuric acid from the waste sulphur dioxide gas. Paper industry is also very important for the province, as Bihar abounds in the raw materials like "sabal" grass and bamboo. Possibilities for starting match, paint, soap, chemical, leather and similar industries seem to be bright.

**Assembly**—Total seats 152, Upper House—Total Seats 30

**New flotations:**—During 1939-40, 22 companies were registered with an authorised capital of Rs 57½ lakhs.

**Transport:**—The E I Rly, B N Rly, G & T Rly, B B Rly, etc., are the chief railways. There are about 4,000 miles of railways in the province besides 4,000 miles of metalled roads and about 26,000 miles of unmetalled roads. There are more than 500 miles of navigable canals.

### BHAGALPUR DISTRICT.

BHAGALPUR District contains a population of 2,234,632 who speak Hindi in an area of about 4,226 sq miles. Average rainfall is 43".

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Acreage under crops for 1940-41—Rice 607,500 acres, wheat 58,600 acres, barley 48,150 acres, jowar 3,000 acres, marua 89,392 acres, maize, 43,534 acres, gram 78,118 acres Other food grains including pulses 142,702 acres, arhar 16,700 acres, linseed 64,269 acres, rape and mustard 68,305 acres, castor 7,294 acres, other oil seeds 8,203 acres, sugarcane 17,300 acres, jute 8,082 acres, tobacco 5,299 acres, fruits and vegetables including root-crops 23,495 acres

Several minerals are found in the district such as sulphurate of antimony, copper, which exists in the southern hills in various forms and iron ore which is very largely distributed but is not worked owing to the difficulties of procuring sufficient fuel and a good flux

Tassar silk, bafta cloth, ghee, iron and brass utensils and lac bracelets are the chief industries Gut from BANKA is sent to Bengal, coarse coloured glass is made at BHAGALPUR Several kinds of coarse cloth are made, and cotton weaving and the manufacture of saltpetre are carried on to a limited extent

The chief imports are coal, coke, salt, cotton, piecegoods, gunny bags, gram, pulses, silk (raw) and tobacco, and the chief exports are rice, mustard seed, wheat, gram and pulses, tassal cloth, bangles, etc Imports come by rail or by steamer.

Trade is chiefly with Nepal and East Bengal The important centres of trade are SULTANGANJ, BHAGALPUR, COLGONG, PIR-PAINTY, BELHAR, AMARPUR, BARAHAT, JEYPORE and BANKA in the south and MADHIPURA, KISHUNGANJ, MURLIGANJ, BANGAON, PRATAPGANJ, BIHPUR, SUPAUL and NIRMALI BAJAR in the north

BHAGALPUR (population 83,847) —Situated on the right bank of the Ganges, Bhagalpur is a great commercial centre Its Central Jail is famous for the manufacture of curtains, carpets, and blankets The local weight is 101 tolas a seer but in the case of certain commodities 80 tolas are common The articles of trade include wheat, jute, (in small quantities), ghee, molasses, jaggery, pulses, rice, paddy, potatoes, tobacco, sugar, millet, oat, etc which are largely imported here from the interior by carts and outside the province by rail and are consumed here or exported The local products are blankets of a coarser quality, tassar, garad, bafta, and khesa cloth Cauliflowers, fishes, vegetables, mangoes, honey, etc are available here There are several oil mills and flour mills, which consume the products of the districts Oil and oil cakes are generally exported to important places on the loop line

CHAMPANAGAR—Mangoes, tassar silk, and ghee are abundantly available here Honey is also sold and can be had from the Santhals on week days during summer

SULTANGANJ—This is a flourishing mart whence produce from the surrounding neighbourhood is carried by boats on the river Ganges to Calcutta and other important trade centres Potatoes are largely cropped and are sent down to Calcutta by the end of October by railway Fishes, mangoes and cauliflowers are also obtainable here during season at a cheap price and business in these is brisk during season time Tassar, bafta and silk cloths are obtainable here in large quantities which go chiefly to Bhagalpur and Monghyr and are then sold to big buyers Connection with the interior is by carts for goods and by motor bus to passengers. It is only 15 miles from Bhagalpur town

NOWGACHIA.—It is an important and busy grain mart Among the commercial products and commodities Maghi and Purbi mustard seeds are the most important Other articles of trade are grams, kali kalai, maize, chillies, aihar, masuri, khesari, linseed, castorseed and

Complete information on manufacturing all sorts of milk products are contained in "Milk & Milk Products." Re. 1/12, Industry Book Dept, Cal. ghee

**COLGONG**—The country round produces rich crops of grams, seeds, pulses, paddy, jaggery, oil cake, rice, potato, onion, turmeric, etc which are brought here by carts in large quantities from the interior and are exported from this place. The potato trade of the place during October with Calcutta is worthy of notice. The business of the place is brisk during season. Fish is also sent away during winter in enormous quantities.

Other important commercial centres where wheat, grains, oil seeds, pulses are largely obtainable, are **PIRPAINTI**, **BANKA**, **MADHIPURA**, **THANA**, **BIHPUR**, etc.

Weekly cattle hats are Colgong, Baluachak Hatia, Goradih Hat, Banka, Barahat, Amarpur Bharko, Rajoun, Nawada, Belhar, Saheb-ganj—every Sunday and Tuesday in a week.

**Fairs**:—Cattle marts and Fairs in the District are—Sultanganj, Maghi-Purnamasi, Febuary every year, Bihpur, Bhadi Purnamasi, Marwa Mahadeo temple mela, August or September every year, Dasahra mela at Bhamarpur, Tetri, Naugachia, Kharik—September or October, every year, Shobrat Mangan Shah Dargaha at Milki—December or January, every year, Sadar—Moharlam Mela—February or March, Supaul—Kabilas fair, Pous Purnamasi, Banka-Bounsai fair—January every year, Colgong—Magh Purnamasi mela at Tintanga and Bateshai—February every year, Madhipura—Singheshwarthan—14th day of Falgun and the few-days preceding and following it every year.

#### CHAMPARAN DISTRICT.

**CHAMPARAN** occupies an area of 3,383 sq miles in the Tirhoot division and contains a population of 23,98,245. Rainfall averages about 56".

The chief crops grown are rice, barley, maize, wheat, pulses and indigo. Oilseed, thatching grass and sugarcane are also grown. There is abundant pasture in **BAGAHA** and **SHIKARPUR**. Catechu is obtained from the forests of **BETTIAH**. Large cattle fairs are held annually at **MADHUBAN** and **BETTIAH**.

Indigo has died out entirely from this district and sugar industry has become the most prominent industry of the district. There are sugar factories at **CHAKIA**, **MOTIHARI**, **SUGAULI**, **NAJHOWLIA**, **CHANPATIA**, **NARKATIAGANJ**, **HARINAGAR**, **BAGAHA** and **LAURIA**. There are rice mills at **ADAPUR**, **GHORASAHAN**, **RAXAUL**, **BHELAI**, **SIKTA**, **CHAURADAND** and **NARKATIAGANJ**. There is only one button making factory at **MEHSI** in the district.

Mangoes are sent to all parts of India from Bettiah and during the season a large export of lichees is carried out at **MEHSI**. Semal wood is exported from **GOBINDGANJ** and **KESSARIA GHATS** to Monghyr. There is also a large trade in bamboos at these ghats. A large quantity of timber is exported from **BAGAHA**.

Coarse cotton cloth is woven. Weaving of blankets and rugs, and pottery making are the other industries. Rice milling is done. Durries, carpets and buttons of all kinds are made at **MEHSI**. There are also rice mills at **CHAKIA**. There are button making factories at **NARBATIA**.

The exports from this district are oilseeds, tobacco, grain and sugar, imports are piecegoods, grain, chemicals, hardware, and machinery. The trade is chiefly with Calcutta. The main trade route to Nepal lies in the Champaran district and traffic is registered on the frontier at **RAXAUL**.

**MOTIHARI** (population 20,368) —It is the headquarter station of the district. Khari salt and saltpetre are obtainable here and are

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sold to Calcutta and up-country merchants. There are several sugar factories here. Tobacco of Motihari is famous and is sent to as far as Burma for cheroot and in cigar industry. Net-making is also an industry. Oil pressing and durri weaving are among important industries of this place. The town has a large trade in ghee and molasses with Calcutta and other centres of Bengal, Bihar and Orissa.

**BETTIAH** (population 30,358) —Bettiah is by far the most important centre of trade in the district in grains, oil seeds, tobacco, and sugarcane. It has a booming trade in these articles. Sabai grass and timber are exported. Of the various productions, jaggery and molasses are largely exported. Ghee is brought here in considerable quantities and is of good quality.

The important marts are **GOBINDGANJ**, **SANGRAMPUR**, **MANPUR** and **BAGAHA**. The trade centres are **BETTIAH**, **MOTIHARI**, **CHAINPATIA**, **SUGAULI**, **BARACHAKIA**, **RAMGARWA**, **KESARIYA** and **MADHUBAN**.

**Fairs**:—Agricultural and Cattle fairs are—Kessaria Mela, Mehshi Dasahara Mela, Rapore Dasahara Mela, Madhuban Dasahara Mela, Bakhri Dasahara Mela, Bettiah Dasahara Mela, Chanpatia Kartick Purnima Mela, Gobindganj Kartick Purnima Mela. Industrial fairs are Rajwalia, Kartick Purnima Mela, Tribeni Mela, Areraj Basant Panchami and Shivaratri Melas.

#### DARBHANGA DISTRICT.

The district covers an area of about 3,348 sq miles. The average annual rainfall is about 50". Hindi, Maithili and Urdu are the languages spoken. Its population is 34,64,256.

The main articles of agricultural produce include rice, wheat, barley, maize, gram, khesari, arhar, kodan, mung, oats, sugarcane yarns and janera. Potatoes, etc are also cultivated. A considerable area is also under oil-seeds (linseed), tobacco, sugarcane, all of which are profitable crops. Cultivation of indigo is limited.

The industries of the district include coarse cloth weaving and mat-making. Blankets, carpets, etc are manufactured at Ryam (near Jhanjharpur) by B N Mulik Industrial School. Kokti cloth, woven from a kind of locally grown cotton is much prized in the district and has a good sale. Brass and bellmetal utensils are made at JHANJHARPUR. The sugar industry in the MADHUBANI and SAMASTIPUR sub divisions is very important. There are several rice mills, oil mills, flour mills and sugar factories. There is a jute mill at MUKTAPUR. There is a tobacco factory at DALSINGSARAI. VIRJINIA tobacco is now grown here.

The principal exports are rice, pulses, linseed, mustard seed, salt-petre, tobacco, hides, ghee, timber (from Nepal frontier) refined sugar and fish. Ghee is largely sent to Calcutta where it has a very good market. Seeds, pulses and grams are sent to Calcutta and other food crops to Saran and Muzaffarpur. Food grains imported come mainly from Nepal and Bhagalpur, coal and coke come from Bengal and Bihar, coal mines, salt and piecegoods come from Calcutta.

The important marts in the district are DARBHANGA, SAMASTIPUR, MADHUBANI, RUSERA, PUSA, KAMTAUL, DALSINGSERAI, NARAHIA (for the grain traffic of Nepal), JHANJHARPUR, JAINAGAR and SUPAUL. The trade is carried by rail, a network of lines passing through the district.

**SAMASTIPUR** (population 13,483) —There are good mango and lichee gardens, the products are very good and are generally exported. Graftings of these trees are also available here. Ghee of SAMASTIPUR

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has a good name in the Calcutta bazar and is exported in large quantities. There is a factory for producing sugar from canes and also from imported molasses.

**RUSERA** —Trade in agricultural products is considerable here. Local oil and oil-cakes are of good quality. Sweet and large fishes are available in the Gandak river and are exported in winter.

**DARBHANGA** (population 70,667) —**LAHERIASARAI** is the Sadar Station. Articles of trade brought here for sale are wax, honey, mangoes, lichees and mango parchments (Amsatta). Resins of pines, guggul, Indian madder, etc., are obtainable in large quantities and are exported.

The traders and people from Nepal bring down timbers, hides and skins, cattle, sheep, buffaloes, goats, lentil, mustard seed, blankets, wax, etc., for sale here and in exchange they take into Nepal piece-goods, salt, kerosene oil, spices, brass utensils, hardwares, etc.

**SAKRI** —Hides and skins, tobacco, garlic, potatoes, maize, turmeric, etc., are largely exported from here. It is chiefly famous for ghee, molasses and jaggery.

**JAINAGAR** —There are 15 rice mills here. It is the chief centre of supply of rice and oil seeds. Timber trade is also carried on an extensive scale where timber comes from Nepal frontier.

**SUPAUL** —An important agriculture mart for eastern portion of Sadar Subdivision. A cattle mart is also held here every week.

**PUSA** —There is an agricultural institute of Government with various branches of agricultural research. Mangoes and lichees are exported.

**MADHUBANI** (population 20,272) is a trade mart.

**Fairs**:—Important Cattle and Agricultural fairs are—**Khaira Mela**, Pusa Road Stn, February; **Narghoghi Mela**, Ujiarpur, October, **Jatmalpur**, Hayaghat Stn, January, **Muktapur**, March, **Birsingpur**, **Muktapur Stn**, March. In **P S SASARAM** —**Tarachandi**, **Chaitra Ramnavami**, **Bhaluni**, **Bikramganj**, **Chaitra Ramnavami**, **Babhani**, **Kargahar**, **Falgun**, **Sivaratri**, **Karakat**, **Bikramganj**, **Cattle Fair**, Just after **Sivaratri**, **Kargahar**, **Falgun** **Sivaratri**, **Dehri**, **Kichari Mela**, Middle of January, **Nasriganj**, Middle of January, **Chenari**, **Gupta Dham**, **Falgun**, **Sivaratri**, **Basant Panchami**. Industrial fairs are **Sailanath**, **Jainagor**, Oct., **Rajnagar**, Oct.

### GAYA DISTRICT.

The district of **GAYA** has an area of 4,714 square miles and a population of 27,85,503. Languages spoken are **Bihari** and **Hindustani**. Average rainfall is about 44.77".

The industries are lac, sugar, tassar, cotton, brass utensils, stone-ware, gold and silver ornaments, blankets, rugs and carpets. **MANPUR**, **KADIRGANJ**, **DAUDNAGAR**, etc., are the centres of those industries and they have a large trade with Calcutta. Padlocks and brasswares are made at **AURANGABAD**. Sugar industry thrives at **JAHANABAD**. Indigenous methods of sugar making are followed in the villages around **GAYA** and **WORSELEYGANJ**. Mica is found in the district.

The principal exports are food-grains, mahua, saltpetre, mica, lac, blankets, carpets, stone, brass, hides, tobacco and betel leaves. The main imports are coke, piecegoods, shawls, kerosene oil, tea, timber, tobacco, manufactured articles, etc.

The chief centres of trade are **GAYA**, **TIKARI**, **GURUA**, **RANIGANJ** and **IMANGANJ**, **RAJAVLI** and **AKBARPUR**, (in Nawadah), **JAHANABAD** and **ARAWAL**, **DAUDNAGAR**, **DEO**, **MAHARAJGANJ**, **TARWA**, **KHIRIAWAN**, **RAFTIGANJ** and **JAMBHOR**.

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**GAYA** (population 1,06,594) —It is the chief town of the district. All sorts of grains and seeds are obtainable here for export. Hukkah tobacco of Gaya is a well-known trade name and has got a wide market all over India. It exports large quantities of high quality molasses and chakigur to U P and Bengal. Potatoes and cauliflowers are available in abundance besides oil cakes, red-pepper, stone wares, plates, blankets, etc. A variety of articles carved out of the black stone of Gaya are exported to different parts of the country and blankets can be obtained at convenient rates and in large number.

**NAWADAH** —Motia cloth and tassar cloth are woven here. The articles of trade include all sorts of grains and seeds, molasses, chakigur, jaggery, sugar, castor seed, potatoes, onions, flax and flax twines, oil cakes, etc. Jaggery of NAWADAH has earned a reputation for itself.

**WORSELEYGANJ** —All sorts of grains and seeds are imported to this town from the surrounding country. Good rice is also obtainable here and the local bansmati sun-dried rice is famous. Jaggery is obtainable in considerable quantities. Large quantities of sugar are exported from here to the United Provinces. Jaggery is exported to Burdwan, Bankura, Hooghly, Midnapur, Birbhum, Santhal Parganas and Singhbhum. Imports into the town include flax, flax-twine, lin seed, mustard seed, castor seed, etc.

**Fairs**:—During the Pitripaksha Mela held at Gaya many Hindus from all over India assemble at the famous shrine of Gaya and perform their duties to their ancestors.

#### HAZARIBAGH DISTRICT.

**HAZARIBAGH** is a district in the Chota Nagpur Division, covering an area of about 7,000 sq miles. Its population is 1,515,997.

Fruits and vegetables are grown on a large scale. Lac cocoons occur widely.

The district is rich in mica and other minerals. Tin has been found in the district. Coal is mined at BAKARO, GIRIDIH and KARANPURA. Output in the district in 1939 was 3,309,409 tons.

Exports of Hazaribagh include copper, catechu, lac, cocoons, bones, hides, poppy-seed, timber, etc., and it imports hardware, brassware, piecegoods, machinery, machine stores, kerosene oil, grams, sugar, oilmen's stores and provision etc.

**HAZARIBAGH** (population 20,977) —It is reached by a motor bus service from the Hazaribagh Road Station on the Grand Chord line of the E I Ry. It is noted for its mica mines, quartz and felspar, forming the bulk of the legmatite, and other mineral products. There are also several flourishing lac factories. All these articles are sent down to Calcutta. On hot-days, seti-mustard seed, myrobalans, honey, wax, mohua flower, oils and seeds, resin, cotton, are obtainable in large quantities.

**GIRIDIH** (population 21,122) —It is an important centre of trade. There are many mica producing works near-by and also in the town. The chief articles of trade are rice, paddy, mohua seed and oil, janera, myrobalan, gur and mustard seed. It has also extensive coal fields. The output of coal during 1939 was 695,879 tons.

**Agricultural Industrial and Cattle Fairs**—Kunda (P S Partapur); Kolahu (P S Huntugunj), Champaran (P S Champaran), Chatru (P S Chatra).

#### MANBHUM DISTRICT.

The MANBHUM district contains a population of 1,199,154 has an area of 4,147 sq miles and the languages spoken include Bengali, Santhali, and Hindi.

**COMMON FAULTS & ERRORS:** A guide to writers and speakers in English. As. 5. Industry Book Dept., Shambazar, Calcutta.

The district is rich in mineral products, specially in coal. The JHARIA coalfield extends over an area of nearly 180 sq miles. 11,322,271 tons of coal are raised in the district. Gold washings are found. Iron ore and copper ore are not uncommon. It has forests also.

Shellac, tassar-silk weaving, coarse cotton cloth weaving, brass utensils making, ornaments making, rope, cutlery and gum making form the diverse industries of the district. Soapstone found in the CHANDIL thana is made into cups, images, dolls, etc.

The chief exports are coal and coke, shellac, cutlery, gums, silk cloth, etc., are also exported. The imports are salt, rice, gram, pulses, kerosene oil, cotton twist and piece-goods, molasses, sugar, tobacco, jaggery, tamarind, ghee, machinery, etc.

The trade centres are PURULIA, JHALDA, RAGHUNATHPUR, ICHAGARH, GOBINDAPUR, NIRSA, etc.

**JHARIA** —It is one of the greatest coal producing tracts in Bihar. The coal is exported to Calcutta for shipment and internal distribution. A power hosiery and knitting mill has recently commenced operation here. During 1939 the coal output in Jharia was 10.5 million tons as against 11.1 million tons in 1938.

**PURULIA** (population 25,974) —The chief articles of trade of this place are lentil, wax, lac, honey, resin, myrobalans, stick of buffalo horns, etc.

**RAJAGRAM** —The place is famous for silk cloths, cocoons, lac, etc., which are exported to Bhagalpur, Murshudabad, Memari, etc.

**CHANDIL** —The chief imports are paddy, rice, lentil, mohua, honey, wax, cocoons, sal wood, castor seed, lac, small bamboo, etc. Regulation Lathis obtained from the jungles are exported to the police stations of Bengal and Bihar. Wood for axle of carts can be had here at a convenient price. Babul wood of the neighbouring forests are generally utilised for the purpose. There are several lac factories here.

**JHALDA** —The place is famous for lac which is largely exported to Calcutta. Sabai grass is exported from this place in large quantities, a kind of rope is also made from it. There are coal mines but they are not very important. There is also a small mica industry, the products being sent down to Calcutta. Jhalda too sends out regulation lathis to various parts of India. Principal imports are paddy and shellac. Other articles of trade are mahua, ganja, dhuna (rosin), cocoons, myrobalans, lentil, wax, etc. Large quantities of coarse cotton cloths, long cloths, napkins, etc., are woven on handlooms.

**DHANBAD** (population 16,356) —Situated in the coal district, it is a great coal centre exporting large quantities of coal to Calcutta and other industrial towns. It is a growing town of considerable interest to traders.

**Fair:**—A fair is organised by E. I. Ry. in February, at DHAIRA.

#### MONGHYR DISTRICT.

The MONGHYR district has an area of 3,931.71 sq miles and a population of 2,278,154. Languages spoken are Hindi and Urdu.

It produces rich crops of rice, maize, wheat, gram, barley, and tobacco. The minerals obtainable here are silver, mica, iron ores and slate.

The chief industries are fire arms and sword making, cotton weaving, dyeing, coarse blankets, boat making, soap boiling, sticks and jewellery from ivory and bone, basket weaving and gur making. The East Indian Railways Works at JAMALPUR, a growing town, is the largest manufacturing workshop in India where all the constituent

**COMMON FAULTS & ERRORS:** A guide to writers and speakers in English. As. 5. Industry Book Dept., Shambazar, Calcutta.

parts of a locomotive can be manufactured. The population there is 30,346. Sugar is made by indigenous process.

The chief articles of exports are gram, pulses, linseed, wheat, mustard, chillies, tobacco leaf, ghee.

**MONGHYR** (population 52,863) —List of exports comprises gram and pulses, wheat, peas and linseed, mustard seed, masuri, blanket, sticks, fishes, and cauliflowers, bajra and maize, mangoes, catechu, onions, stones, slates, tiles, dishes, cups, rice (Kharagpur), matki ghee, etc. There are oil mills and flour mills. It is also a centre for cigarette making from local tobacco leaf and has a large factory for the purpose. There are factories for the manufacture of perfumed articles and hosiery. It is famous for the manufacture of guns and pistols of good quality. Cargo boats of large capacities can be hired cheap.

**KHARAGPUR** —Besides rice, oil seeds, grain, jaggery, chillies, etc., are largely produced.

**JHAJHA** —The gur of the locality is of very fine quality and attracts many Bengal merchants here who purchase it from the surrounding villages through brokers, as the article is not actually brought into the market for sale. Country cigarettes called biris are made here. The usual articles for sale are sunn or hemp, mohua and mohua seed and oil, castor oil, mustard seed, ghee, linseed, etc. There are mica mines near the town.

**LAKHISERAI** —It has a mustard oil mill. Gram, grains and pulses and oil seeds are imported here in abundance. Besides these, ghee, sugar, pulses, oil cakes, onions, garlies, potatoes, tobacco and chillies are obtainable in large quantities in the markets. It has grown into a big centre of trade.

**KHAGARIA** —Considerable quantities of grains and seeds, chillies, turmeric, amuseed and cauliflower, are obtainable here. Ghee of this place is famous for its high quality and is exported to Calcutta and other places. Fish provides a most profitable business here, being exported in large quantities to Calcutta and other places in Bengal.

**BEGUSARAI** —All kinds of seeds and grains, oil cakes, etc., are brought here from the interior and exported chiefly to Bengal. Ghee obtained here is of the best quality and chillies are imported here in large quantities, generally on market days.

**BAKRI BAZAR** can supply thousands and thousands of maunds of chillies in season time. It is 12 miles away from Begusarai.

**PARIHARA** —The ghee of the place has a large sale in Calcutta. It is 8 miles from Lakmonia Station, which is reached from Monghyr Ghaut Station, and 2 miles from the famous Bakri market.

**JAMUI** —Many Bengali merchants come here to buy gur which is of good quality. Business is also carried on in mahua (seed and oil), linseed, ghee and sal leaves.

Other centres of trade are **GOGRI BARHAIYA, SHEIKPUR, BARI ARPUR, BARBIGHA** and **SIKANDRA**.

#### MUZAFFARPUR DISTRICT.

The **MUZAFFARPUR** district has an area of 3,036 sq miles and a population of 2,904,182 who speak mostly Hindi and Urdu. The average rainfall amounts to about 48".

Chief crops are rice, wheat, barley, ragi, maize, gram, cereals and pulses, linseed, rape seed, sugarcane, tobacco, fruits and vegetables. Other crops are sugarcane, poppy, and thatching grass. Garlic, onion, chillies, turmeric, are also cultivated. Cauliflowers are reared. There are big gardens where mangoes and lichees are grown.

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The important industries are coarse cloth making, carpet making, pottery, mat, cart wheel, palanquins, cutlery, indigo and sugar refining. There are several sugar and indigo factories Tobacco and saltpetre are also important manufactures

The chief exports are indigo, sugar, oil-seeds, saltpetre, hides, ghee, opium, tobacco, fruits and vegetables The imports are salt, cotton-goods, hardware, coal and coke, kerosene oil, maize, millets, rice and food grains, motor cars and accessories, timber, etc

The chief trade centres are MUZAFFARPUR, HAZIPUR, LAL-GONG, SITAMARHI, SURSAND, SAHIBGANJ, BELA etc

MUZAFFARPUR (population 42,812) —It is the chief industrial town of North Bihar There are several iron works, sugar factories, orchards and ice and oil mills Cartloads of timber, hides of cattle, sheep, buffaloes, goats, blankets, lentil, wax, honey, and salt-petre are brought down for sale from the Nepal-Teraí by the Nepalesé on market days The town enjoys a very considerable trade in exporting agricultural produce, and saltpetre

The town manufactures coarse cloth and towels, blankets are available here at a cheap rate There are still several indigo factories. Goods of agricultural produce are brought from the interior by carts and are exported by rail to other parts of Bihar and Bengal Wooden palanquins and cart-wheels are made here in large number and sent out to different parts of the country The lichees and mangoes of Muzaffarpur are famous, exports being mainly to Calcutta, Darjeeling and the up-country Sugar is exported on a large scale to Bengal, U P, and C P, while treacle (for the preparation of tobacco) is exported to Bishnupur, Gaya, Monghyr, Patna, Bhagalpur, Benares and other places

BAIRAGNIA —Though a small place, it is a trade centre of considerable and growing importance It is a large grain and oil-seeds depot Dealers of the plains and the hills of Nepal come here

SITAMARHI—Besides all sorts of grains and seeds, ghee, sugar, red-pepper, etc, are available here in large quantities Bheh gur and jaggery have a reputation in the market, and a kind of soft ghee is available here in considerable quantities Oil-seeds, hides, sacred thread and pottery are made There are several saltpetre factories sending saltpetre down to Calcutta. There are a rice mill, a jute mill and a mustard oil mill Linseed, mustard seed and castor seed, brought here from the neighbouring countries are exported to Calcutta and Bombay

HAJIPUR (population 19,209) is famous for unrefined sugar which is largely used by people of Bengal (high castes) Chutneys of fruits of this place are also famous and are sent to places in Bengal, Bihar, and U P There are several sugar factories and the unrefined sugar is largely exported to East Bengal, Calcutta, Benares, United Provinces, and C P by rail and also by steamers HAJIPUR is interested largely in trading in the agricultural products produced in surrounding villages, consisting of cotton, pulses, rice, grain, copper and brass vessels, linseed, tobacco, saltpetre, fruit and vegetables Plantains and mangoes are available in large quantities There are a few distilleries

Four branches of the B & N. W Rly pass through the district. Transportation is by railways and boats and also by carts, for which there are good roads penetrating the interior.

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**PALAMAU DISTRICT.**

The PALAMAU district in the Chota Nagpur division is 4,916 square miles in area and contains a population of 819,037. Average rainfall about 50"

The district is for the most part hilly broken country covered with jungle in which the close set bamboo is prominent while the steeper slopes are covered with denser forest mixed with climbers, Sal, aram, Bia, and other timbers abound in the south. In the valleys the trees of Paris, Khair and Mahua are remarkable.

The characteristic formation of Palamau, a gneiss of the varied constitution, is in some parts associated with enormous thickness of crystalline limestone. There are outcrops of Bijapur slates, shales, sandstone and sandstones. The next formation is Gondwana. There are then coal-fields, known as the Auranga, Hutar, and Daltonganj coalfields. The western extremity of the large Karanpura coalfield is in this district. Iron ores occur as hematite and limonite associated with shades of the coal measure. Laterite, graphite, copper are also found but remain unworked and undeveloped. The coal is of poorer quality and still unworked, owing to rights in minerals being still undecided. Limestone is extracted on extensive scale. Coal is imported in large quantities.

Ghee, tassar silk, lac and coarse cotton making are the main industries. The chief exports are—Hides, lac, ghee, oilseeds, bamboos, timber, catechu, fire-clay, biri leaves, shellac, konjhi gum (Gond), bones, bai grass, hay and sugarcane.

The import consists of piecegoods, salt, brass ware, sugar, kerosine, and rice. Ghee, mustard seed and hides are brought from Surguja State. The trade in the interior of the district is carried on by pack-animals except in the neighbourhood of the railway station.

**DALTONGANJ**—It is an important centre of trade in the district. **GARHWA**—Mustard seed and ghee are imported from Surguja for sale on Saturdays. The climate of this place is very good and articles of everyday use are comparatively cheap.

Other trade centres in the district are **HARIHARGANJ**, **HUSSAIBABAD**, **PATHRA**, **LATEHAR** and **CHANDWA**.

Big cattle markets are **PATHRA** near Daltonganj, **Garhwa** and **arhasi**.

**Fairs**—Cattle fairs are held at **HURLONG**, **CHAKLA** and **LATEHAR**, all in Latchar Sub division. These last for a week and are held on 30th Pous, 15th Magh and 13th Falgun, respectively.

**PATNA DISTRICT.**

The PATNA district extends over an area of 2,114 sq miles and has a population of 1,844,397 souls. Average rainfall 50". Hindi, Urdu and Bihari are the languages spoken.

Chief crops are rice, wheat, jowar, barley, maize, gram, cereals and pulses, linseed, rape and mustard, condiments and spices, sugarcane, potatoes, cauliflowers, mangoes, chillies, etc., are cultivated.

The industries are carpet weaving, brocade, embroidery, pottery, glassware, toys, fireworks, lac ornaments, gold and silver ware and saf, glassware, boots and shoes and cabinet ware. Carpets are made at **SULTANGANJ** and **DINAPUR**. There are some iron foundries also besides sugar, lozenges, toffees, chocolate drops etc. are manufactured at **BIHTA** by South Bihar Sugar Mills Ltd. Chaki gur is made. Hides are available in plenty.

The imports are rice, paddy, salt, coal, kerosene oil, piece-goods and gunny bags. The principal exports from the district are wheat, linseed, pulses, mustard seed, hides, sugar, tobacco and opium.

**Drink & Sell Syrup. MANUFACTURE OF SYRUP Explains the process. INDUSTRY BOOK DEPT., Shambazar, Calcutta.**

Traffic is carried on both by railway and steamers; country boats are used to carry on trade with the Nepal Terai. Other important markets are DINAPUR, BARH, MOKAMEH, ISLAMPUR, FUTWA and HILSA.

**BARH** —The imports into this market include all sorts of grain and seed besides tobacco, potatoes, onions, garlic, chillies, good rice (bansmati sun-dried), oil cakes (ghani expressed), etc. Tobacco and chillies come chiefly from Darbhanga and big merchants from East Bengal come here to purchase chillies only. The place is well known for the manufacture of Jasmine oil.

**PATNA** (population 159,690) —Patna City is the seat of the Government of Bihar. It is an important junction on the main line and is the largest city in Bihar. It is the chief centre for grain, pulses, and salt. Government offices are mostly situated at BANKIPUR. Among the most noteworthy industries carried on in the city mention should be made of oil and flour milling, cotton weaving, carpet making, glass manufacture, gold and silver embroidery, stone cutting, lapidary art, wood-carving, jewellery, etc. Other smaller industries are shoe-making, utensils, iron workshop, durri weaving, etc. There are quite a large number of mills and factories in the town. It possesses normally a river frontage of 5 to 6 miles and its central position near the junction of three great rivers, viz., the Ganges, the Gondak and the Sone, where the traffic of the United Provinces meets that of Bengal, gives it great natural advantage as a distributing centre. Goods coming up by rail from Calcutta are here taken over by country boats, bullock carts, etc., and distributed throughout the neighbouring tracts, which in turn send their produce to be railed or shipped to Calcutta, Nepal and elsewhere.

**DINAPUR** (population 24,221) —Dinapur town is a cantonment and about 3 miles from Patna. Dinapur is famous for its butter, potatoes, and khari masur. Potatoes are exported to Burdwan, Memari, Bolepur, Pandua, Mogra, Gushkara, Chinsurah, Tarakeswar, Sheoraphuli and Calcutta in Bengal. They are also exported to Dacca, Chandpur, Narayanganj, Comilla, Noakhali, Pabna, Bogra and other places in Eastern Bengal. Cauliflowers are also similarly exported from here. Business in crude gur (chaki-gur) is also profitable. The local jaggery has a fine colour and finds a good market in eastern and western parts of the country. The Mango business begins from the month of Jaistha and different varieties of mangoes such as Langra, Bombay, Malda, etc. are largely exported. The khari masur is exported in large quantities to Eastern Bengal. Good shoes and boots are manufactured, and exported to different parts of the country. Various kinds of table cloths, napkins, towels are made.

**DIGHAGHAT** —The place is chiefly noted for potatoes, cabbages, onions and mangoes, etc. though various sorts of grains and seeds are also imported here.

**BIHAR** (population 46,904) —The bazar is a most important mart where jute, jaggery, chaki-gur, molasses, country sugar, ghee, blankets, oil-cake, mustard seed and other grains and seeds are available in large quantities. It is also an important place of art manufacture. Soap, tassar cloth, hookkah pipes, fine dhuties and various kinds of check chitz and brass utensils are available. Considerable quantities of flax are exported to Bhadreswar, Mogra, Sheoraphully, Burdwan, Calcutta, and other places in Lower Bengal. Large quantities of potato seed are also available here and potato is exported from here to Asansol, Ranganj, Burdwan, Santhia, Bolepur, Memari, Chandernagore, Calcutta and other places in Lower Bengal. Coarse cloths are woven and largely exported to the markets in the colliery districts and to Patna.

**Drink & Sell Syrup. MANUFACTURE OF SYRUP** Explains the process. **INDUSTRY BOOK DEPT., Shambazar, Calcutta.**



where it is coloured red and sold as "Patnai Kherua." The napkins of this place are famous and are exported to Calcutta. Fine cloths are also manufactured in large quantities and exported to Patna, Monghyr, Bhagalpur and other places. Various sorts of cloth are produced in the Government weaving factory here. Many cooly-contractors export blankets from this place.

**MOKAMEH**—It is famous for big-sized grains and seeds of exceptional quality which are imported there in large quantities, but these seeds are mixed with particles of dust. Grams and other seeds and grains, chillies, pulses, tobacco, onions, potatoes, oilcake, garlicks etc are also available in the bazar in large quantities.

Means of transport are steamer, rail and boats

### PURNEA DISTRICT

The PURNEA district is in the Bhagalpur Division and contains a population of 2,399,417 in an area of 4,998 sq miles. Hindi is the language spoken except in the Kishanganj Sub-division where it is an admixture of Hindi, Bengali and Nepalese. Average rainfall is 62.28".

The chief crops are rice, maize, tobacco, pulses, oilseeds (mustard), jute etc. Tea is also grown in the north-eastern part of the district. Patanis (rough coloured cloth), mats, cart wheels, gunny bags, alloy spoons are made in the Kishanganj Sub-division. The chief exports are rice, gram, jute, oil-seeds and tobacco. Imports are food grains, sugar, salt, piece-goods, kerosene oil, gunny bags and coal. The chief trade centres are FORBESGANJ, RANIGANJ, KASBA, PURNEA, KATIHAIR, BARSOI, BANMANKHI, KISHANGANJ, ISLAMPUR, THAKURGANJ and BIBIGANJ. The district is famous for its jute production, tobacco and mustard seed.

**PURNEA** (population 19,099) Merchants from Nepal bring their local goods by carts to the market of Purnea and get piece goods and other foreign articles in exchange, e.g. cloth, salt and kerosene oil. Honey is also obtainable. Hides and bones are exported to Calcutta.

**KATIHAIR** (population 26,459) on the junction of the B & A and B & N W Railways is an important trade centre. Fine jute and flour and oil mills operate in this town.

**Fairs**—A big fair (Khagra Fair) is held at Kishanganj (Purnea) during December-January. It is a big cattle mart where agricultural products and foreign articles are exhibited for sale. The next fair is Gulabagh 4½ miles from the town of Purnea, which is held in November-December. The other melas are Islampur, October-November, Daspara—February, Bibiganj—December in the Kishanganj Sub-division and Dharamyanj—January in the Araria Sub-division.

### RANCHI DISTRICT

The RANCHI district has a population of 1,681,253 in an area of 7,102 sq miles. Hindi, Moodari, Uraon, and Kharia are the languages spoken. Bengali is also spoken in the eastern part of the district, and Panch Pargana in a large portion of Khunti Sub-division and also in Silli P. S.

Chief crops are Rice, ragi, maize, cereals and pulses, rape and mustard, sesamum, cotton, tea, fruits and vegetables. Tea is also cultivated and manufactured here.

Lac is common all over the district. The lac produced on the kusum tree fetches the best prices, two crops being produced a year in the hot weather and again in the cold weather. Shellac making is the chief industry of the district. Gold (in small quantities), mica and

**Manufacture of Tobacco, Snuff, Zarda, etc., Read, INDIAN TOBACCO & ITS PREPARATIONS.** Re. 1/12. Industry Book Dept., Calcutta.

coal are the chief minerals obtainable here Coal (566,885 tons in 1938) is mined near KARANPURA The district is rich in bauxite

The district has a large cement factory at KHELARI

RANCHI town is the summer capital of the Province of Bihar Papaya, cabbage, peas, beans, potatoes, jhinga, brinjal, pumpkin, etc., are extensively grown about the town and are heavy in weight Red pepper and products of the Junar Hills are sold in the market Kusum flower plants yielding good lac are seen here Many kinds of grasses suitable for the production of paper are obtainable here in abundance Sankha til is obtainable here in large quantities Local ghee is pure, good and cheap

Chief exports from Ranchi are grains and pulses, hides and skins, lac, stick, oilseeds, tea (in small quantities), lumber, bones, myrobalans, etc

There are about 150 miles of good metalled roads The bulk of the trade from the interior is carried by goods trucks

#### SANTHAL PARGANAS

The SANTHAL PARGANAS occupies an area of 5,459 square miles and has a population of 2,246,230 persons, by the census of 1941. Santali, Hindi and Bengali, Malto or Pahari are the languages in common use The average annual rainfall is about 52"

The crops grown are rice, maize, wheat, jowar, marua, bajra, kodo, barley, gram, mustard seed, cotton, sugarcane, til (oilseed), sabai, brinjals and other vegetables, etc The chief forest products are sal and mahua. Besides these stone is quarried on a considerable scale along the Loop Line of the East Indian Railway in RAJMAHAL and PAKAUR Sub-divisions

One laterite quarry and two soap stone quarries are being worked in the Rajmahal Sub-division on a small scale China clay has been worked since 1892 at MANGAL HAT in Rajmahal Sub-division There is also a quantity of China clay at KARANPUR in the Dumka Damini-koh Government Estates Coal and iron ore also occur A portion of the Raniganj coal area falls under this district, the total output being 17,090 tons The coal extracted is inferior in quality and is generally fit only for burning bricks and lime About 3,20,156 tons of stones chiefly igneous rocks are quarried in this district

Mattocks, picks, plough, hooks, knives, shoes etc are manufactured, tanning baskets, bamboo mats, chiks or screens are also made, ghee, oil, gur, lac (shellac) are prepared

The chief imports are gunny bags, linseed, mustard seed, tobacco, raw cotton, sugar, refined and unrefined molasses, European, Bombay and Japanese piece goods, salt, kerosene oil, coal and coke The chief exports are food grains including paddy, maize, sabai grass, road metal, hides and raw fibres The trade in hides is chiefly carried on in the headquarters and Pakaur Sub-divisions where regular hide godowns are kept by Mohammedan merchants The chief centres of trade are SAHIBGANJ, MADHUPUR, DEOGHAR, PAKAUR, KARMA-TAUR and DUMKA and the big traders are mostly Marwaris The principal mart is SAHIBGANJ (E I Ry Loop) from where about 350,000 maunds of Sabai grass are sent to the paper mills There are rice mills at MADHUPUR and DEOGHAR, oil mills at PAKAUR, SAHIBGANJ and four mills at MADHUPUR and DUMKA

DEOGHAR —Big size arhar known as Maghi arhar is available here in large quantities Rice and paddy, jute, mustard seed, castor seed, ghee, til, myrobalans, linseed, mahua (seed and flower both) and other articles from the rich valleys around are brought for sale.

Manufacture of Tobacco, Snuff, Zarda, etc, Read, INDIAN TOBACCO & ITS PREPARATIONS. Re 1/12. Industry Book Dept., Calcutta.

It has got several flower gardens whence roses are daily sent down to Calcutta. Ghee and curdled milk as also chirah (pressed rice) are obtainable here in abundance and are of good quality.

**MADHUPUR**—It is a health resort some 190 miles from Calcutta. Food grains and raw materials, tamarind, mustard seed, e.g., are available in sufficient quantities. **MADHUPUR** exports large quantities of mahua flowers and seeds and myrobalans to Howrah.

**KARMATAUR**—It is a big rice mart with a number of rice mills. It is also an important trading centre of the district. It is also a health resort.

**PAKAUR**—It is an important trading centre. Export business is carried on with Calcutta and other places in Bengal, and the exports chiefly consist of rice, paddy, gram, peas, castor seed, dal, chillies, onions, potatoes, turmeric, linseed, oil-cake, jaggery, ghee, etc. On 'hat' days the Santals come with myrobalans, wax, honey, cocoons, bamboo, lentil, mahua-seed, anantamul (Hemedesmi) etc. which can be conveniently purchased in exchange of provisions. A profitable business here is the extraction of stone ballast from the quarries of which there are several in the place. Stone ballast for metalling roads is exported to municipalities, railways, and district boards. Of the several lac factories that once flourished here, only one now exists viz, Pakur Lac Factory. There is a big cattle market, held every week on Thursday at Hiranpur.

**DUMKA**—It is one of the principal trading centres of the district. The local hat is held twice a week. An agricultural and industrial exhibition and cattle fair what is commonly known as "Hijla Mela" is held here once a year in February.

**SAHEBGANJ**—It is the largest business town in the district. It has a population of 16,000, several oil mills and a flour mill exists here. From here sabai-grass is despatched to paper mills.

**Fairs**—A considerable amount of trade is carried on at the fairs held from time to time in different parts of the district. The principal fairs are—In **DUMKA** S D—Rautswar Mela, Last day of Chait, 8 days, Nunbil Mela, Last day of Pous, 8 days, Baskmath, Sivaratri day in Falgun, 3 days, Dumka or Hijla Mela, February, 7 days. In **DEOGHAR** S D—Deoghar, Bhadra-Purnima, September, 4 days, Sri Panchami, February, 4 days, Sivaratri March, 5 days, Burha-Sweri, December, 3 days. In **GODDA** S D—Basantrai, Chait Sankranti, 15 days, Dhamsai, Sivaratri in February, 7 days, Chapri, Sivaratri in February, 3 days. In **JAMTARA** S D—Jamtara, Rasjatra, (November), 10 days; Karamdaha, Last day of Pous, 10 days. In **PAKAUR** S D—Pakaur, Rathjatra, (June or July), 1 day, and Kalpuja, (October or November), 1 day. In **RAJMAHAL** S D—Gaeswar Mela in Kherwa, Bungalow Burhant, Sivaratri in Falgun, 4 days, Matiharna, Bungalow-Maharajpur, Sivaratri in Falgun, 4 days.

#### SARAN DISTRICT.

The **SARAN** district extends over an area of 2,633 sq miles. Its population is 2,486,568. Language spoken is Hindi. Average annual rainfall is about 45.76".

The chief crops raised are rice, barley, maize, khesari, pulse, linseed, mustard seed, sugarcane, opium (premier district).

Coarse cloth is woven. Brassware of **SIWAN** is famous as also pottery of the place. Saltpetre is made. Several sugar factories are situated in the district. Shellac and indigo are also manufactured. Imports of food grains largely exceed exports. Rice milling is done.

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The principal imports are rice, other food grains (from Muzapuri, Darbhanga, Bhagalpur), cotton piecegoods, salt, kerosene oil, coal and coke. The exports are opium, sugar, indigo, saltpetre, shellac, molasses, linseed, mustard seed, gram, pulses and other food grains. Traffic is carried by railway.

**CHAPRA** (population 47,448) is one of the important marts in the district. Gram, wheat, linseed, mustard seed, jaggery, molasses, tobacco, chillies, potatoes, onions, sugar, turmeric, poppyseed, arhar, oilcake, castor oil, khari salt, maize, garlic, butter, blankets, hides, etc. are brought here in abundance for sale. Saltpetre, khari salt, ghee, castor oil cake, potatoes, sugar and arhar dal of Chapra are well known. Saltpetre is exported to Calcutta. The local handicrafts consist of weaving of coarse cotton cloth (exported to Patna and the colliery district), and blankets (which are produced in abundance and exported to Calcutta and other places).

**HATHWA**—White sugar is manufactured here by a factory belonging to the Dalmia group.

The other principal marts are **REVELGANJ**, **SIWAN**, **MAHARAJGANJ**, **MIRGANJ**, **DIGWARA**, **SONEPUR** (where the famous cattle and horse and elephant fair is held during November) and **MORHOWRAH** and **PANCHRUKHI**. The district is fairly well supplied with railway and good roads.

**Fairs**:—Kartik Ashnan mela (Harihar Chetra) at Sonapore, 11 days, 30th Kartik (November) is the bathing day, mela begins one week before. 400,000 souls visit every year. Large number of cattle, horses, elephants are sold.

**Shivaratri mela** at Silhauri P. S. Marhowrah, Ry. St. Marhowrah, 13th Falgun (March) one week and 13th Baisak (April) 20,000 people flock in from great distances to worship mahadeo (Siva) and to sell and buy cattle and miscellaneous goods.

**Ram Nawmi Mela** at Dumarsan P. S. Masrakh Ry. St. Masrakh, 24th Chait (April) 2 days, 25,000 people assemble. Horses, buffaloes and bullocks are sold in large numbers.

**Kartik Ashnan Mela** at Godna, P. S. & Ry. St. Revelganj, 30th Kartik (November) bathing day, 4 days. 33,000 people mostly women attend the fair, next to Sonapur fair, it is the largest cattle fair in this district.

In **Gopalganj S. D.**—Thawe, March and April, Manjha, October, Hathwa, Dasara festival, Bederjuni, October and March, Barapatti, October and March.

**Baniapur Mela**—11 miles north of Khairah Rly. station in the Saran district. Starts from the 9th day of Agahan lasts for 15 to 20 days. Horses, buffaloes, bullocks and cows are sold in large number. About 40,000 people assemble. It is also an important cattle fair in the district.

#### SHAHABAD DISTRICT.

The **SHAHABAD** district in the Patna Division has an area of 4,353 sq. miles and a population of 2,336,642. Hindi, Urdu and Bhojpuri are the languages of the district. Average rainfall is about 45".

The chief crops are rice, maize or moka, marua, jowar, bajra, cereals and pulses, wheat, barley, oats, gram and linseed, poppy and sugarcane.

There are three sugar mills in the district, viz., at **BIKRAMGANJ**, **BUXAR** and **DEHRI**. Sugarcane pressing machines made of iron are made at **BEHEA**. Carpets, bed sheets and pottery are made at **SASARAM**. Blankets are made at **NASRIGANJ**. Carpet weaving is carried

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## 446 INDUSTRY YEAR BOOK & DIRECTORY, 1943

on at BHABUA There is an oil mill at NASRIGANJ Big industries recently started comprise manufacture of cement, paper, sugar and chemicals, at DALMIANAGAR.

Blankets and cotton cloth are also woven Boat-making, stone cutting, flour grinding and sugar refining are the other industries there Carpet weaving is carried on at BHABUA

The imports are piece-goods, kerosene oil, coal, coke etc The exports are wheat, gram, pulse, oil seeds, raw sugar and gur

The chief trade centres are ARRAH (population 48,922), BEHEA, DUMRAON, BUXAR, CHAUSA, and DEHRI Arrah is the district head quarters and the largest town in the district

DALMIANAGAR is a growing industrial town, named after Seth Ram Krishna Dalmia Cement, paper, sugar, chemical, (bleaching powder and caustic soda) are manufactured here by the Rohtas Industries Ltd, which run 4 factories in the town The cement factory turns out 5,00 tons of cement per day The paper mill with a daily production of 20 tons of paper manufactures paper of all grades including manilla, kraft, Duplex, etc The sugar factory is capable of turning out 21,000 tons of sugar every season Head office of Dalmia Cement Ltd is also situated here

Fairs —Cattle fairs are held at Bhaluni, P S Bikramganj in Sasaram Sub-division in the month of Chait or about Chait Naumi day (April) where bullocks, cows and buffaloes are sold and at Barahpur in Buxar Sub division for a week on or about Falgun Shivaratri (March), and Baisakh Shivaratri (May)

### SINGHBHUM DISTRICT.

The SINGHBHUM district in the Chota Nagpur Division occupies an area of 3,879 sq miles and contains a population of 9,29,302 Hindusthani and Ho languages are the principal languages of the district The average rainfall is about 54" More than 1,200 sq miles are under Government reserved forest

The chief crops in the district are rice, oilseeds including rape, mustard, sarguja, maize, marua, millets and cotton

The district is very rich in minerals Extensive deposits of iron ore occur in the district and are mostly treated by Tata Iron and Steel Works at TATANAGAR and by the Indian Iron and Steel Company at Kulti and copper ores are treated by the Indian Copper Corporations at MAUBHANDAR near Ghatsila, B N Ry Copper ores exist here, gold is found, limestone and kankar are also found here

The chief exports are sal, paddy and rice, oilseeds, stick-lac, iron, tassar, silk-cocoons, hides, sabai grass, chromite, manganese, white clay, red and yellow ochres, soapstone and limestone The chief imports are salt, cotton yarn, piecegoods, tobacco, brass utensils, sugar, coal, kerosene oil and coke Trade is gradually increasing, and timber in increasing quantities is sent away from the district.

CHAIBASSA —The adjoining country produces paddy, rice, silk, lac, tassar, wax, honey, mustard and castor seeds, stone utensils etc It is noted for timber and rice, and rice from this place is exported to all the coal fields Sal-timbers are largely obtainable here and are purchased by merchants, from Calcutta and other places

RAIGARH —Myrobalan, sal, wood, wax, til, dhuna seti, kajla mustard seeds, etc, are the chief articles of trade here Forests exist in the neighbourhood and various forest products are available here besides sal timber business in which is a highly profitable one Kat-til can be had here in plenty

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**TATANAGAR** (population, 1,10,000 approximately) —It is one of the most important industrial towns of India and is the seat of the iron industry in India. The Iron and Steel Works of Messrs Tata Iron and Steel Co., are situated here. The output of the principal products during the financial year 1939-40 was as follows—Coke 972,000 tons, Pig iron 1,140,000 tons, Steel Ingots 1,018,000 tons, Saleable Steel 7,77,000 tons.

The Company runs several markets and is responsible for the entire water supply, sewerage and sewage disposal, roads conservancy and all other services of a municipal nature. It has also provided 16 primary schools, 6 Middle English Schools and 2 High Schools—one for boys and the other for girls. The Company also has a large Main Hospital and six dispensaries.

The Tata Company had a large expansion programme in hand which contemplated erection of a hoop and strip plant, a tube-making plant and a plant for making wheel tyres and axles and all components of locomotives except boiler tubes. It is also understood that the Company will shortly be manufacturing steel by an entirely new process, developed in Jamshedpur itself. This would enable India to produce acid steel entirely out of Indian materials.

Other subsidiary companies at Jamshedpur are (1) The Tinplate Co., of India Ltd (2) The Indian Cable Company, (3) The Indian Steel and Wire Products, (4) The Tatanagar Foundry Company, (5) The Tatanagar Chemical Company (which has lately been taken over by the Steel Company), (6) The Indian Hume Pipe Company and (7) The Jamshedpur Engineering and Machine making Company.

Another important company operating in Tatanagar is the Indian Copper Corporation Ltd with a capital of £225,000/- with operations confined to the Musabani area. The company has erected Power Plant, Concentration Mill and Smelter on the north side of the Subarnarekha near Ghatsila. The Company has installed a Rolling Mill for the production of yellow metal sheet and circles in India.

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# MARKET PLACES OF THE UNITED PROVINCES

**T**HE United Provinces of Agra and Oudh has an area of about 110,000 square miles and a population of 55,021,000 including that of States.

The greater portion of the Provinces is a level plain The Gangetic alluvium is still carried down from the Himalayas and deposited on the banks of the river as silt In the hilly tracts stone and other minerals are found

The Upper Ganges Canal, the Lower Ganges Canal and the Sarda Canal system help the irrigation of the province Formerly goods were transported over the Ganges but the opening of railways and roads have largely altered the state of things and has given great impetus to the agricultural classes

**Rainfall:**—Vegetation is on the whole uniform, differences being due to variations in rainfall and temperature In the East the rainfall is heaviest, the average being 60", in the West the average is about 30" and in the Himalayan tracts as high a figure as 110" is recorded at Mussorie, and Dehra Dun gets about 120" Storms and cyclones are rare in the province

**Soil:**—There are three varieties of soils in the Provinces—the valley of the Himalayas, the main alluvium and the Central Indian alluvium In the Himalayas, cultivation is carried on small patches where ground is level System of cultivation is determined by conditions of the soil and rainfall

**Crops**—Wheat, barley, pulses, rice, millets and maize are the staple crops according to the nature of the soil Irrigation is the main source of water for cultivation Grain, jowar and bajra are also largely grown Peas, masuri, khesari, arhar, pulses and among oil seeds, til, mustard, linseed and castor are cultivated and are classed as dry crops The United Provinces produces more sugar than any other province and ranks second only to the Punjab as a wheat growing area Cotton occupies about 4 per cent of the cultivated area and constitutes the main fibre crop Sugarcane is an important crop, indigo cultivation is declining The cultivated fruits are mango, mohua, berry, pomegranate, peach, custard apple, guava, jack fruit, tamarind, pine-apple, plantain, shaddock and several varieties of figs, melon, lime, orange and citron Vegetables are everywhere cultivated in garden plots The agricultural implements are simple and the size of the plough and other implements depends upon the pulling capacity of the local cattle Chief crops in the Province are —

	Average of preceding 5 years	1936	1937	-1938	1939	1940
		-37	-38	-39	-40	-41
		(in 1,000 acres)				
Rice	6,399	6,683	7,033	7,785	7,834	7,292
Wheat	7,806	7,053	7,810	8,521	8,520	7,385
Linseed	855	908	950	925	913	255
Rape and mustard	2,757	2,779	2,584	2,744	2,793	262
Sesamum	1,203	1,065	1,065	1,323	1,285	283
Cotton	595	700	595	665	496	394
Tobacco	184	184	184	184	92	73
Sugarcane	2,249	2,515	2,222	1,632	1,909	2,518

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## • GIFTS OF AYURVEDA •

### **JABAKUSUM HAIR OIL**

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Following crops were cultivated during the year 1940-41 — Bajra 2,435,000 acres, jowar 2,224,000 acres, groundnut 159,000 acres, spices 144,000 acres, bailey 385,000 acres, maize 212,000 acres, grams 5,106,000 acres

The districts where the crops are fairly abundant are as follows  
Rice—Gorakhpur, Basti, Gonda, Bahraich, Allahabad, Azamgarh, Fyzabad, Kheri, Wheat—Gorakhpur, Meerut, Gonda, Moradabad, Azamgarh, Allahabad, Basti, Cawnpur, Jaunpur, Partabgarh, Jowar—Jhansi, Cawnpur, Banda, Bajra—Agra, Banda, Maize—Bahraich, Banda, Giam—Banda, Hamirpur, Meerut, Allahabad, Pulses—Gorakhpur, Azamgarh, Ballia, Fyzabad, Ghazipur, Mirzapur, Sitapur, Lunseed—Gonda, Sesame—Hamirpur, Jhansi, Rape and Mustard—Bahraich; Sugarcane—Gorakhpur, Meerut, Muzaffarnagar, Cotton—Meerut, Poppy—Budaun, Fyzabad, Ghazipur

**Sarda Canal Scheme.**—With all its branches, minor channels, and distributaries the total length of the Sarda canal system is about 4,260 miles commanding about 7 million acres of cultivable area. The canal traverses the Pilibhit, Shahjahanpur, Kheri, Sitapur, Hardoi and Unao districts. Apart from protection against famine which the canal affords to the millions of people whose livelihood depends upon its waters, this waterway has given great impetus to the launching of a sugar industry in the province

**Irrigation.**—Total irrigated area in the province is 11,958,937 acres of which 38,64,191 acres are irrigated by Government canals, 44,911 acres by private canals, 58,222 acres by tanks, 5,554,059 acres by wells and 2,539,560 acres by other sources

**Timber.**—Semul and gutil logs for match making and other purposes are met with in Hildwari, Ramnagar, Terai and Bhabar Estates. After meeting the full requirements of the match factories in the Provinces it will be possible to supply a considerable quantity of these timbers to the match factories outside it

**Cattle.**—Good breeds of cattle are found in Bundelkhand and in the submontane tract of the north. Sheep and goats abound in the Provinces and cattle fairs are held in many places; and those at Batesar (Agra), Kosi (Muttra), Gola (Khetri), Fakhirpur (Bahraich), Mokkanpur (Cawnpore), Nauchandi and Garhmukteswar (Meerut) are famous

**Ghee.**—In the western districts of United Provinces such as Etawah, Mainpuri, Agra, Aligarh, Meerut, the production of ghee is of such importance that ghee merchants of Cawnpur, Calcutta and Rangoon have opened branches there to ensure a regular and sufficient supply of ghee. Flourishing mandis have sprung up at KHURJA, CHANDAUSI, HATHRAS, ALIGARH, SHIKOHABAD, ETAWAH, AURIYA, and BHARATHANA and there is almost a ghee belt stretching from Meerut to Cawnpore. About 40,000 maunds of ghee are annually sent out of the Etawah market alone

**Minerals.**—U P is not rich in minerals. Peat is found in Upper Doab and coal in the Southern Mirzapur, iron and copper ores are found in Garhwal and Kumaon districts. Limestone and gypsum are found in the Dehra Dun district and stone in Mirzapur.

**Cottage Industries.**—Cotton ginning, weaving and spinning is a home industry at AZAMGARH, FYZABAD, ALIGARH, ETAWAH, SAHARANPUR and MUZAFFARNAGAR. Attempts are being made to push on the manufacture of fancy borders for saris which have a very large demand in the Provinces. MEERUT is a chief centre of the weaving industry. BENARES and JHANSI are centres of silk weaving industry and MAU in Fyzabad is a centre of artificial silk weaving. SHAHJAHANPUR spun silk industry is progressing. There is a small local

**DOMESTIC RECIPES.** As 5. Industry Book Dept, Shambazar, Cal. Lots of useful formulae for home application are included in

trade in blankets in every district and woollen cloths and ropes, coarse blankets of goat's hair are made in the Himalayan districts and at MIRZAPUR. Cotton carpets and durries are made in every jail, those of ALIGARH, BAREILLY and AGRA being notable. MIRZAPUR and AGRA are centres of woollen carpet weaving, other centres being JHANSI, MORADABAD and CAWNPORE. Rugs, prayer mats, horse cloths, saddles, etc. are also made. Power spinning and weaving is progressing. Hosiery is another rapidly progressing industry and several power hosiery plants have been installed at Cawnpore and Meerut. Dyeing and printing are established industries. There are many goldsmiths in the towns and villages. Blacksmiths make and repair agricultural implements everywhere in the province. Tatpatti woven of sunn fibre is made in the districts of Shahjahanpore, Partabgarh, Bareilly, Fatehpore, Bijnor, Azamgarh, Basti, Sultanpore and Barabanki. Basket weaving from munj, jhan, and jhankar are practised at ALLAHABAD, PILIBHIT, HARDOI and MORADABAD. Brass and copperware are made in PARTABGARH, GONDA, KHERI, MUZAFFARNAGAR, etc. Marble work with stone is done at AGRA, wood carving is practised at SAHARANPUR, NAGINA and MAINPURI, and BAREILLY. Wood-carving work is done at SAHARANPUR and MUZAFFARNAGAR and silver, ivory, bider, chikon, clay and printing industries obtain at LUCKNOW. Wooden toys of BENARES, LUCKNOW, etc., are well-known in the Indian market. Experiments are in progress at Wood Technical Institute, Bareilly to make better finished toys.

**Major Industries:**—Mill industries are textile making, tanning, sugar factories, soap making, leather goods, match and cigarette making, paper making and shellac factories. Matches are made at BAREILLY. Locks and padlocks are made at ALIGARH. MORADABAD and BENARES, are centres of metal utensil making. Pottery is made everywhere, specially in CHUNAR, ALIGARH, AZAMGARH, LUCKNOW, etc. Glass factories exist at ALLAHABAD, ALIGARH, MAINPURI, ETAWAH and FIROZABAD. There are 3 jute mills in the province, equipped with 15,424 spindles and 734 looms.

**Sugar Factories**—The United Provinces own the largest number of sugar-mills in India and has 52.2 per cent of the area under sugar cane in India. During 1939-40, 70 factories were at work producing 659,500 tons of sugar as against 320,300 tons in 1938-39. Over and above this 1,454,000 tons of gur was produced in 1938-39 in the province.

**Factories**—In the United Provinces there are 34 glass factories, 20 oil mills, 2 paper mills, 2 silk mills, 3 woollen mills, 42 engineering companies, 11 flour mills, 6 hosiery factories, etc.

**Cotton Spinning**—Twenty-seven factories worked during 1939-40. The number of spindles was 743,702. The quantity of cotton consumed was 13½ million cwt. The bulk of the production was as usual of counts from 11's to 20's. But the production of counts from 11's to 30's is also steadily increasing.

**Industrial Possibilities**—With protection granted to the wool industry there is room for development of more woollen mills in the province. The paper industry can make remarkable strides with the proper utilisation of sabai grass which is found in abundant quantities in the forests of U. P. Progress can be made both with regard to manufacture of glass blown wares and sheets. Production of luxury goods, e.g., Farrukhabad prints, Mirzapur carpets and Moradabad brass-ware can be increased. There is also scope for caustic soda, soda ash,

**CATTLE BREEDING & DAIRYING:** A Handbook on keeping cows.  
As. 5. Industry Book Dept., Shambazar, Calcutta.

required in the glass industry Viscose silk industry can be developed from cotton lint and other cellulose substances Abundant supply of maize can be industrialised for starch industry Paint and varnish industries (from linseed), lubricants (from castor seeds), ghee and gelatine (from hide fleshings and power alcohol from molasses) deserve attention

**Trade**—The chief trade centres are CAWNPORE, ALLAHABAD, MIRZAPUR, BENARES, LUCKNOW, MEERUT, ALIGARH (KOIL), MUTTRA, AGRA, FURRAKKABAD, CHANDAUSI, BAREILLY, SAHARANPUR, PILLIBHIT, HATHRAS, SHAHJAHANPUR The chief articles of trade are raw cotton, cotton goods, grains, oilseeds, hides and skins, brass and copperwares made at MIRZAPUR, BENARES and LUCKNOW The imports are raw materials and materials ready for consumption Calcutta, Bombay and the Punjab participate in the trade of the Provinces

**Transport and Communication**.—The E I Rly, G I P Rly, B B & C I Rly, R & K Rly and B N W Rly traverse the Provinces making a network of railways The total lines open in the Provinces are about 4,000 miles There are about 8,000 miles of metalled roads and more than 27,000 miles of unmetalled roads

Almost all the big towns have a good number of lorries and motor buses, for carrying passengers, within the towns as well as for taking passengers into the interior from towns and wayside stations

#### AGRA DISTRICT.

The district of AGRA is 7,405 square miles in area and contains a population of 1,048,316 The languages spoken are Braja Bhasha and Urdu (in the City) The average rainfall is 26"

The staple food crops of the district are bajra, gram, jowar, wheat, barley and cotton Cattle are generally imported from the Punjab and Central India There are stone quarries at Tantpuri, a village in tehsil Kheragarh

AGRA (population 229,764), the capital of the district is an important centre of arts and manufactures, specially of marble toys, plates, beautifully inlaid with precious stones The city is famous for its shoe industry. Good carpets and blankets are manufactured in cottages (handlooms) and factories The production of carpets is the most important outturn of the Agra Central Jail Satranjies, carpets, soft stone articles, brass and bellmetal utensils, cotton and woollen cloths are famous and are available in abundance There are several oil mills and cotton weaving and spinning factories Glass is manufactured on a large scale Embroidery works of pure lace are done artistically Soapstone and looking-glass frames are available here; small round boxes are also made and sold to different provinces and towns Articles made of stones are sold in abundance It is a centre of better quality hides and skins which are generally obtainable from the slaughter houses situated here Guts and casings are also available at this place It is a great mart for mustard seed, wheat, rye, masur dal, linseed, gram, etc Being situated on the border of Rajputana it has become an important collecting centre of grain, oilseeds, cotton and ghee from the States of Rajputana. The States of Rajputana and Central India receive in their turn cotton goods, metals, sugar, salt, tobacco, etc through Agra. Goods are despatched and received by rail.

In DAYALBAG, there are technical school, dairy and agricultural farms, women's college, etc Scientific instruments, electrical goods, jewellery, electroplated goods etc, are made There are two tanneries, a leather goods factory, a textile mill and a hosiery factory.

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**FIROZABAD** (population more than 40,000) —The place is famous for glass bangles. The industry is stated to have made great headway; and ruby, red amber and granite block, glass bangles are now common. There are also fifty factories producing glass. Firozabad factories are now equipped with the Japanese type of furnaces and a few are taking to the manufacture of bangles by machinery.

**Fairs**—Chief fairs are Mau, Sitla Fair, every Monday in the month of Asarh, 4 days, Sikandra, Kailash Fair, 3rd Monday in the month of Sawan, 1 day, Itaura, Deviji's Fair, from Chait Sudi 7 to 9, 3 days, Agra Cantt Ry Station, Kamalkhan Fair, on Thursday in the end of Kanagat, 1 day, Jamna Kinara and Ram Bagh Teraki Fair, 3rd Thursday of the month of Bhadore, 1 day, Fatehpur Sikri, Urs fair of Sh Salim Chisti from 26th Ramjan, Bateshwar fair, last week of Kartik, Camels and horses come here from different corners of U P and the Punjab, Bah, Baldeoji fair, Chaitra Panchmi Badi to Dasm, Jirkhu in Tahsil Esmadpura, Ram Navami fair, Chait Sudi Navami, Jagnair in Tahsil Kheragarh, Gival Baba fair, Bhadon Purnamashi, Ada in Tahsil Kheragarh, Bhadon Badi Amaswas to Satain, Birthula, Tahsil Kheragarh Bhadon Badi Ashtami and Naumi, Sufipura in Tahsil Ferozabad, Sheikh Sufi Sahah fair, 21st Sufar, Harnair Nawada Khera, Tahsil Fatiabad, Bhadon Sudi Ekadashi, Sahadshahr Chak 1, Kasons fair, Chait Sudi Padwa.

#### ALIGARH DISTRICT.

The ALIGARH district occupies an area of 1,952 sq miles and contains a population of 1,171,745 who speak Hindi and Urdu.

Sugarcane is grown in plenty. The principal crops of the district are wheat, barley, jowar, gram, maize, and arahar. Cotton is the most important of the other crops grown.

Acacia, neem and mango trees abound in the district, but, all the same timber has to be imported for building purposes. Horse-breeding has become very popular at Aligarh, and Government maintains a number of stallions here. Kankar for road making and saltpetre and glass are available.

The district is the centre of cotton weaving, rug and carpet making, lock factories, cotton spinning and ginning works and dairy farms. Glass is manufactured at SASNI and HATHRAS JUNC, brass utensils are made. Sugar factories exist at BIRPURA and GABHANA. Glass bangles, beads, etc are manufactured at AKRABAD (13 miles from Aligarh). Glass bangles for curtains and buttons are manufactured at PURDINAGAR (2 miles from S Rao).

The district exports grains and cotton, oilseeds, country goods, glass and saltpetre and imports sugar, rice, piecegoods, spices, metals and timber. Brass utensils are made at HATHRAS and ATRAULI. The district is famous for lock. Buckets, spades, khurpas, cauldrons are also manufactured.

**ALIGARH**—It is the seat of Muslim University where Muslims and non-muslims are educated and is famous for its manufacture of locks, brasswares, daries, bangles and other glass wares. There is a big Swedish dairy farm for the manufacture of butter and cheese. There are other butter factories in the city, turning out butter in large quantity. There is also a big agricultural farm supervised by the Government in village Kalai and the one in Aligarh has been made over to the Aligarh University for training of the students by the Government.

**HATHRAS**—Hathras is second only to Cawnpore as an important centre of trade in U P. Trade connections are generally with Cawn-

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pore, Bombay, Calcutta, and Delhi. Very good quality ghee and pure mustard oil are obtainable here in large quantity and are also exported. A ghee grading station under the name of Bharat Ghee Grading Station has recently been opened. The oil seeds from this place are sent to different districts of Western Bengal and are also pressed, and oil is also extracted here in the mills. Arhar pulse is prepared in large quantity and is exported. There are also several spinning, weaving, and ginning factories. There is also one tin factory, which prepares canisters, and these are exported outside the district. This place is also famous for desi knives.

**HATHRAS TAHSIL**—At MURSAN situated within this tahsil a cattle fair takes place on every Tuesday, where many cattle from far and near are brought for sale. Another cattle market in the Tahsil is held in SASNI on every Sunday.

**KHAIR TAHSIL**—This is a purely agricultural tahsil. Sugarcane is grown in plenty. The principal crops of the tahsil are wheat, barley, jowar, bajra, gram, maize and arhar, cotton is the most important of the other crops grown. There is a ginning factory at Gabhan. There is a cattle market at KHAIR which is held every Tuesday. A cattle fair is held at GABHANA near Grand Trunk Road at about 1½ miles from Somna Ry. St. twice a year. Saltpetre is found in some villages in the vicinity of the Jumna.

**ANDOLI**—Moonthas are prepared and sold. It is about 5 miles from Rati Ka Nagla Station.

**NAI NAGLA AHAR**—Here moonthas are prepared and sold. It is about 5 miles from S. Rao.

**Fairs**—A District Fair takes place annually in Aligarh, which is called by the name of "The Government Horse Show and District Fair, Aligarh." This fair is run by a managing committee presided over by the district magistrate of Aligarh. One Danji Fair also takes place on Bhadon Sudhi Chhat every year, when many people come here from outside the Tahsil. An art and industrial exhibition is held at Hathras in November and December. A fair is held in Barhad on Bhadon Sudhi Chhat to Purnamashi each year and a large number of donkeys and ponies are sold in it. It is about 4 miles from Rati Ka Nagla, B. B. & C. I. Ry. St. A fair is held in Hasayan for 9th to 12th day of Bhadra Sudhi in which agricultural implements are sold. It is about 4 miles from Ratika Nagla Station, Sikandra Rao, Bhadra, 15 days, and Jaith, 15 days. Other fairs are—Kazimabad near Atrauli Road Station, Deo Chhat Fair, Bhadon Sudhi 6, Bijah near Atrauli Road Station, Shiv Ratri Mela, Phagun Badi 14.

### ALLAHABAD DISTRICT.

The ALLAHABAD district stretches over an area of 3,852 square miles and is inhabited by Hindi and Urdu speaking population of 1,491,913. Annual rainfall is about 38".

The district is a good rice land and sugar-cane is grown besides the ordinary food crops and oil seeds. Cattle are kept and good ghee is available. The crops raised are rice, bajra, jowar, gram, barley, wheat, pea, oil seeds and sugar-cane, on the Jumna side cotton is grown in Doab and Tahsil Meja, hemp is also cultivated.

Bamboo baskets locally made are in good demand. Brass utensils are made at SARAI AKIL and PHULPUR. Stone is quarried from Kaimur Range in Pargana Bara and Khairagarh and is taken to surrounding district. Fine quality of khaddar is woven in MAU-AIMA, Tahsil Soraon.

There are several oil mills, flour mills and workshops in ALLAHABAD. Glass-ware is made at NAINI, near Allahabad. The

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sugar mill at JHUSI produces sugar in large quantities. The Allahabad Glass Works manufacture, electric shades, coloured sheet glass and aerated water bottles. Recently a factory has been started for the manufacture of essential oils, aromatic chemicals and synthetic perfumes.

The principal exports are gram, cotton, oil seeds, sugar, ghee, etc., and the chief imports are metals, salt and piecegoods.

**ALLAHABAD** (population 183,194) —This town is the capital of the Provinces, but politically important is now being gradually shifted to Lucknow where most of the offices of the Government have been transferred. Grains and seeds are exported from this place.

**DARANAGAR** The articles of trade of this place consist of grains, wheat, castor seed, linseed, rape seed, seti-mustard, arhar, masur, khesari, ghee, etc., which are largely imported here from the surrounding villages. The linseed of this place is very good and is obtainable in abundance.

**NAINI**—It is situated on the right bank of the Jumna and is connected with Allahabad by a bridge. There is a sugar mill also.

**SIRSA**—Is a big grain trading centre in the district and is on the main E I Railway line. There are also many smaller markets in the interior.

**Fair**:—An important fair is held every 12th year at Allahabad and is known as Kumbh Mela.

#### ALMORA DISTRICT.

The ALMORA district extends over an area of 5,500 sq miles in the Kumaon division and has a population of 687,905 souls. Hindi is the language spoken here. Average rainfall is 80".

Staple food crops are maize and rice in autumn, and wheat and barley in spring. Minor vegetables, millet and maize are also cultivated. The hills also produce turmeric, ginger, chillies and potatoes. There are wide areas under reserved forests.

Copper is mined here by indigenous methods. There are also several tea plantations. Blankets, woollen cloths and shoes are made for local use. Breweries work at RANIKHET. Blanket making is progressing in ALMORA where 5,000 hand spindles are now working. Manufacture of copper, brass and iron utensils is carried on at several places in the district. Wooden jars, bowls and cups of the district are popular. Collected honey is a commodity of sale. Boxes from reeds and bamboo are made in DANPUR, etc. Wool is available in plenty.

The district exports chillies, ginger, turmeric, tea and forest produce in increasing quantities, and imports grain, cloth, sugar and salt. There is a good trade in borax, salt and wool with Tibet, merchants from that place bring these articles and take manufactured goods in exchange.

The centres of trade are ALMORA (a health resort) CHAMPAWAT, PITHORAGARH and RANIKHET.

There is an extensive bus traffic between Baijnath, Almora, Ranikhet, and Kathgodam, which has a considerable trade and is a distributing centre for the products of the plains and of imported goods.

**Fairs**:—Chief fairs in this district are the Jaul Jibi mela in Tahsil, Pithoragarh which is held about the middle of November. At this fair the Bhutias sell the articles brought from Tibet. It is also a market for copper vessels, ponies, pitaras and blankets, etc. The Uttarami fair is held at Bageswar about the middle of January. The articles sold are practically the same as at Jaul Jibi. The third important fair

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is at Thal, Tahsil Pithoragarh, about the beginning of April The articles sold are practically the same as at Jaul Jibi and Bageswar

### AZAMGARH DISTRICT

The AZAMGARH district lies in the Gorakhpur division with an area of 2,147 sq miles and a population of 1,571,577. The local dialect is called Bhojpuri. Average rainfall is about 41"

The main crops grown are rice, barley, peas, kodan, wheat, arhar, gram, maize and marua Sugarcane, however, is the valuable crop of the district, besides indigo and poppy which are also grown The district produces about 65,000 mds of sunn fibre

Sugar refining and weaving of cotton cloth are the chief industries MABARAKPUR, MAU and KAPAGANJ are the chief centres of weaving industry The pottery of NIZAMABAD is very famous and is despatched to other towns and cities Tatti weaving is practised on a wide scale, the goods being sent to Calcutta or Cawnpore

The main imports are grain, piecegoods, yarn cotton, silk, tobacco, salt, metals, hardware and drugs The exports are sugar, cloth, oil-seeds, indigo, saltpetre, etc

AZAMGARH town (population 18,046), is situated on the railway line on the loop of the Tons The goods are carried by railways chiefly, there being only a very small boat traffic

Fairs.—A list of agricultural industrial and cattle fairs held in the district are —In PHUSPUR Tahsil Govind Saheb Fair at Amda between the border of Azamgarh and Fyzabad about the middle of December each year where camels and horses are sold in large number, in MOHAMMAD Tahsil, Deolas fair at Deokali Deolas during Kartik Sudi Chhatha each year where horses, cows and buffaloes are sold in LALGANJ Tahsil, cattle fair at Chauri in Aghan each year

### BAHRAICH DISTRICT.

The BAHRAICH district lies in the Fyzabad division covering an area of 2,654 sq miles and has a population of 1,240,569. Hindi and Urdu are the languages spoken here Rainfall averages 46".

The crops grown are wheat, rice and maize, gram, barley, peas, masur, poppy, oil seeds, etc

Coarse cotton cloth is woven here for local use Felt making, small rugs and blanket making are the other industries besides wood carving Bellmetal wares of this district are famous

The chief exports are grain, forest product and oil seeds, while the imports consist of metals, piecegoods, salt and sugar Timber is floated down the river, the chief markets being BAHRAICH, NAUPARA PAYAGPUR.

BAHRAICH (population 60,665 urban) is a trade centre with increasing traffic with Nepal Grain, oil seeds and spices come here from Nepal and piecegoods, metal, salt, tobacco enter Nepal through the Railway Station of NEPALGANJ

Fairs.—Important fairs are —In TAHSIL BAHRAICH, Jaisinghpur, July, Asarh Purnamashi, Sita Dohar, November, Kartik Purnima, Bahadurpur ghat, Nov, Kartik Purnima, Mela Dargah Syed Salar Masud Ghazi, Bahraich, May 1st Sunday of each Jeth, for 10 days

In TAHSIL QAISARGANJ Ram Leela Dasehra Qaisarganj, Oct Kunwar Sudi Astimi for 10 days; Barnapur, Kunwar Purnamashi, for 3 days, Ghoor at Ghoharipur, Asarh Sudi Purnima for 15 days

In TAHSIL NANPARA Guptnath, Kuar Sudi Purnamashi, Takia Shah Suja, Kuar Sudi Purnamashi, 3 days, Baba Munda Shah,

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Baisakh Sudi Naumi, Param Hans (Bardah), January, Pous Badī Teej 4 days, Jaglmath (Basthanwan), Bhadon Sudi Teej, Karikot, Kuar Sudi Astami, Baba Param Hans (Sarahiya), Aghan Sudi Panchmi, 2 days Mahadeo Bhanon Nath, Chait Ram Naumi, Sugar, Aghan Sudi Puranmashi, Mahdeo Jaglinath (Ramnagar Sen), Chait Ramnaumi, 2 days, Puranmashi Kartik (Hawalia), Kartik Puranmashi, 4 days.

### BALLIA DISTRICT

The BALLIA district has an area of 1,218 sq miles and a population of 1,062,837 Hindi is the language of the district. The average rainfall is about 42"

The chief crops on the alluvial plain consist of kodan, rice, barley, peas, gram, maize, arhar, masui and wheat Sugar cane is a valuable crop

Sugar is refined by the indigenous process and coarse cotton cloth is woven Palanquins are made here Gagras, stands for teapoys and Angethis from imported sheet iron are made in the BALLIA town and neighbouring villages Ornamental brass wares are manufactured in village TURTIPAR and imported to other districts Scented oils, attai, rose and kewara water are manufactured at SIKANDARPUR about 10 miles from BALLIA town and exported chiefly to Calcutta by steamer Ornamental work in thread on cotton flannel for manufacturing horse and elephant trappings and palanquin purdahs are made in villages BAIRIA and TEKADEORI etc and in DADARI and SONEPUR fairs

The main imports are ghee, salt, oilseeds, small gram, wheat, saltpetre, sodium carbonate, sugai, masui pulse, scented oils and rose and keora water

The exports are rice, spices, salt and metals Boat traffic over the Ganges and the Gogra is still prevalent

BALLIA (population 23,559) is a station of B N W Railway

Fairs:—Shankarpur, Ram Naumi, Chait Sudi Naumi, Iron, brass and earthenwares, Sonadih, Ram Naumi, Chait Sudi Naumi, Iron, brass and earthenwares, Unchera, Ram Naumi, Chait Sudi Naumi, Iron, brass and wooden boxes, Maniar, Nauka Brahm Mela, Chait Sudi Naumi, Iron, brass and cattle fair, and Ektija, Baisakh Sudi 3, Iron, brass and earthenwares and cloths, Pachewa, "Pachewa Ke Mela" Baisakh Sudi 9, Cattle are sold here; Maniar, Nauk Brahm, Kuar Sudi 10, Iron, brasswares and cattle, Ballia, Dadri Fair, Kartik Sudi Purnima, Cattle and horse market, Iron, brass, earthenwares, cloths, blankets, steel, wooden boxes, carpets, stationery and other articles, Rani Ganj, Shudist Baba Mela, Agahan Sudi 5, Cattle and horse market, Dekuli, Sheoratri, Fagun Badī 13, Iron, brass and earthenwares, Asega Sheoratri, Fagun Badī 13, Iron, brass and earthenwares, Karon, Sheoratri, Fagun Badī 13, Iron, brass and earthenwares, Lakhneshar Dih, Sheoratri, Fagun Badī 13, Iron, brass and earthenwares

### BANDA DISTRICT.

The BANDA district covers an area over 2,800 sq miles It is inhabited by a population of 722,956 (provisional figure), who speak Urdu and a Hindustani dialect The average rainfall is about 40"

A very fine breed of cattle known as Kenwariya is found in the district This breed is very popular for light draught on the road and for cultivation

Chief crops are jowar, wheat, pulses rice and sesamum Barley, bajra, cotton are also cultivated

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The industries consist of coarse cotton weaving, cotton prints, cooking vessels and rough carpets

The main exports are gram, wheat, millet, in favourable years, besides cotton, tendu leaves for making biris are also exported from the Manikpur forest area. The imports are rice, sugar, salt, tobacco, metals, etc

BANDA town (provisional figure of population 26,570) is the headquarters of both the tahsil and the district of the same name and stands on the Manikpur Banda Section of the G I P Rly. It is a municipality and contains many temples and mosques

KARWI, a tahsil and a Railway Station on the G I P line, lies on the bank of the river Poisan. Miscellaneous trades and professions are pursued here

CHITRAKUT, place of pilgrimage for Hindus, is only 3 miles off from Karwi. Conveyances are easily available

Other centres of trade are RAJAPUR and ATARRA

The G I P line from Jhansi and Jubbulpore branch line serve the district well

### BARABANKI DISTRICT.

The BARABANKI district occupies an area of 1,760 sq miles and is inhabited by a Hindustani-speaking population numbering 1,163,290. Average rainfall is about 40"

The products of the district are rice, wheat, gram, which are largely grown. Pulses, kodan, millets, barley, peas, masur, and maize are also cultivated

The industries are cotton and rug weaving at NAWABGANJ, ZAIDPUR BURHWAL and FATEHPUR. Local cotton prints are famous. There is a sugar mill at BAHARAMGHAT. Furniture and cooking utensils are made. Wooden sandals of various qualities are made here. Hewett Weaving School, Nawabganj and local Jolahas of ZAIDPUR town carry out cotton weaving work. Carpet and rug weaving is done by Jolahas at Tahsil Fatehpur. There is a Leather Working School at Rudauli where leather goods are made. Mason Industrial Co-operative Federation, at Bara Banki, deals in goods prepared by Indian Industries

The district exports grain, raw sugar, hides and cloth. The main imports are piecegoods and yarn, metals, hardware and sugar by rail. Timber passes through BAHARAMGHAT

The important commercial centre of the district is NAWABGANJ. The district is well served by a loopline of the E I R and the B & N W R which pass through it

The main Agricultural, Industrial and Cattle fair held in the District is Dewa Fair and Exhibition. It is held at Dewa town, 8 miles from Barabanki, at Bera Banki—Fatehpur pucca road. This fair is held in Kartik every year which corresponds to October. This fair lasts for seven days of which the main day is KARTWA CHAULH (4th day of Kartik)

### BAREILLY DISTRICT

The BAREILLY district has an area of over 1,164 sq miles, and a population of 1,072,379, who speak Hindustani. Average rainfall is 44"

The agricultural products available in the local market are chiefly wheat and rice. Other cultivated crops are gram, bajra, maize, sugarcane, poppy, oil seeds, cotton and sunn hemp

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## 458 INDUSTRY YEAR BOOK & DIRECTORY, 1943

The main industry of the district is the refining of sugar by indigenous methods. Refined sugar is generally exported to the Indian States like Jaipur, Jodhpur and Udaipur which still give preference to Indian sugar over foreign sugar on religious grounds. Among the other industries are manufacture of khaddar, furniture, durries, pileless carpet, etc. Khaddar is not manufactured in the town, but is brought from a neighbouring village called FATEHGANJ.

Furniture worth lakhs of rupees is supplied to the whole of the province as well as to the Punjab. The chief woods employed in furniture are shisham, tun and kodan, the last one being most used in building materials. Bareilly-made durries are sent even to such durri manufacturing towns as Agra, Cawnpore and Ambala. They are cheap and durable. Match factory and catechu factory have been lately started in the district.

**IZATNAGAR**—A workshop of the Railway department of the R & K. Rly works is located here. The main items of export consist of gram, pulse, sugar, hides, hemp and oilseeds. The imports are generally salt, piecegoods, metals, stone and lime.

**FATEHGANJ**—Khaddar is exported to Ambala, Ludhiana, Hoshiarpur and even to Amritsar. The cloth is cheap and durable.

**BAREILLY** City (population 144,031), the administrative headquarters of the district is noted for its furniture made both of bamboo and ordinary timber from the forests of Kumaun and Pilibhit. Katha and catechu are manufactured here on a large scale. A match factory is also in operation.

Leather articles including boots and shoes are generally imported from Agra and Cawnpore, though slippers are imported from Calcutta. Agra durries are imported, but durries of inferior quality are also imported from Ludhiana. Foreign piece-goods are imported from Delhi, Cawnpore and Farrukhabad markets. Swadeshi piece-goods are generally imported direct from the mills of Bombay, Nagpur and Beawar.

**CHETTURBUCKGANJ** contains flour mills, rice mills and oil mills. A big factory is situated at a distance of three miles from Bareilly for the purpose of manufacturing bobbins for the textile industry. One important industry, having possibilities of development, is that of calico-printing. Manufacture of rosin and turpentine is conducted on a large scale in this town.

**AONLA**, is one of the most leading business towns in the district with a considerable traffic especially in grain. It is connected with Budaun by a metalled road.

### BASTI DISTRICT.

The BASTI district is 2,752 sq miles in area and its population is 2,078,024. Language spoken is Hindi of the Bhojpuri dialect. The average rainfall is about 48".

Chief crops are rice, pulses, wheat and barley, about 1½ million acres being under these crops. Gram, sugarcane and maize are also grown and on a fairly big scale.

Wheat and poppy are best grown in the lighter loams of the Rapti, and the Gora Doab grows rice, barley, kodan, peas, masur, gram and arhar. The district is exceptionally poor in industrial pursuits, sugar refining on a small scale being the only industry.

Agricultural implements, coarse cotton cloth, utensils, etc., for local use are also made here. Chintz is made on a small scale at **BAHA-DURPUR** and **NAGAR**.

The trade of the district is mainly in agricultural produce. The main exports from the district are rice, sugar, saltpetre, oilseeds.

**THE RETAIL TRADE**—an exposition of Methods that build up Retail Trade. Price Re. 1/4. Industry Book Dept., Shambazar, Calcutta.

and hides The imports are cloth, metals, salt, cotton and tobacco. The through trade with Nepal is also of importance Iron, drugs, spices, ghee, fibres, and rice come from Nepal and raw sugar, salt, hardware, tobacco, coconuts, cotton yarn and cloth are sent to Nepal. USKA and MEHUDAWAL are chief marts in the north and carry on trade with Nepal, and the commerce of the south is partly over the Gora and also by railway to a large extent The trade connections are generally with Cawnpore and Calcutta

BASTI has a small trade It is the headquarters of the district and lies on the B & N W Rly on the Gorakhpur-Fyzabad Road

### BENARES DISTRICT.

BENARES occupies an area of 1,008 sq miles and is inhabited by a population of 1,016,378 Urdu and Hindi are the languages of the district The average annual rainfall is about 40"

Weaving of coarse cotton cloth is the most important industry in the district Wooden lacquered toys are made Oil seeds are the most important article of export Stone and fuel are sent from Mirzapur by the river

BENARES (population 702,325) is one of the biggest towns of India. It is the place of pilgrimage of the Hindus of the whole of India It is also an important commercial centre in the United Provinces The place is noted for brass work, silk cloth and jewellery. It is the seat of the famous Benares Hindu University

The important articles of trade are gram, wheat, castor seed, linseed, mustard seed, oil cake, sugar, arhar, ghee, besides mung, potato, vegetables and dried fruits, blankets, blanket-sheets, many sorts of silk cloth, chaddars and curios, utensils, beads of rudrakha, toys of wood, earthen and brassware, surti, zarda, tobacco, snuff, hubble bubble, country made attar and essential oils, marble utensils, images of gods and goddesses, jewellery carved out of stones, etc., are largely available here There are several oil mills of which the castor-oil mills produce good cakes, business in which is brisk at the beginning of the season

Vegetables and fishes are very cheap here The vegetables include potatoes, cauliflower, lemon, guava (of big size), orange, pear, apple, grape, pomegranate, mangoes, lichees, etc

CHANDAULI TAHSIL occupies an area of 510 sq miles and is inhabited by a population 3,14,053 Sugar-cane pressing machines are manufactured at ALINAGAR Rice is the only important article of export The imports are salt, piecegoods and metal Stone is generally carried down from Mirzapur by the river. MUGHALSARAI (population 7,588) is the only biggest habitation in this Tahsil The important article of trade are rice, gram, wheat and linseed Mangoes and lemons are important fruits locally produced

Fairs—Important cattle fairs of Chandauli Tahsil are Paura, Pargana, Barhwal, Basaikh Sudi Teras; Sarai Jagdish, Pargana Maghwar, Chait, Sudi Naumi A cattle fair is held at Rohaman Parao near Balapur R S, in the Benares Tahsil, during Aghanbadi for 15 days

### BIJNOR DISTRICT.

The BIJNOR district occupies an area of 1,867 sq miles. Its population is 835,469 who generally speak Hindustani. The annual average rainfall is about 45".

The principal crops grown in the district are rice, wheat, barley, bajra, grain, sugarcane, cotton and oil seeds.

Raw and refined sugar making is the chief industry and these are exported, coarse cotton cloth and finer varieties are woven Carved

**THE RETAIL TRADE**—an exposition of Methods that build up Retail Trade. Price Re. 1/4. Industry Book Dept., Shambazar, Calcutta.

ebony, and ropes are made at NAGINA and iron work at DHAMPUR. There are a number of glass factories at NAGINA. Manufacture of pocket-knives, papier mache and Brahmanical threads are other industries of the district. A kind of mat is woven in village, MOHAMMADPUR DEOMAL, which is a village industry.

Chief exports are sugar, forest produce, rape, and papier mache. Gram and grains, salt, piece-goods and metals are imported.

BIJNOR TOWN (population 23,520) is situated on a undulating ground not far off the Ganges. The trade consists chiefly of sugar and pocket knives and Brahmanical threads (which enjoy local reputation). There has been established one sugar mill i.e., (Seth Shiva Prasad Banarsi Das Sugar Mill, Bijnor). Sugar and molasses are exported to other districts from this place.

NAJIBABAD (population 28,473) —Brassware, coarse cotton cloth, blankets, Indian shoes, and smoking hookahs constitute the chief industries of the town. It exports bamboo, sugarcane, sugar shira, potatoes, gur and some hill produce. The imports consist chiefly of wheat, wax, honey, resin, gram and piecegoods.

KIRATPUR is a centre of trade with large dealings in gur, shira, rose, gulkund, iron lock and padlocks.

NAGINA (population 25,427) —The local industry consists of ebony combs and pen-stands, wooden and ebony walking sticks, cash boxes, glass bottles, cotton cloth, upholstery, ebony caskets, dressing tables and shoe making. Ebony carving industry of Nagina is at least two centuries old. The goods are marketed at Delhi, Allahabad and Simla.

DHAMPUR —There is good trade in gur, sugar and mung.

BALWALI (in Bijnor tahsil) —Glass manufacture is conducted here.

In CHANDPUR town rough khaddar is prepared by handloom by Julahas and exported to Delhi. Raw sugar is also prepared and is exported to other districts.

HALDWAR —Wooden work is carried on in this town. Fancy articles of wood such as toys, inkstand and many other articles are prepared here.

Fairs:—During the month of Bhadon Ram Naumi fair is held at Bedar Baknatpur, Pargana Nagina 4 miles from Bundki Station (E. I. Ry.) in which mules are sold. A fair is held in September at Haldwar.

In DARANAGAR village situated on the banks of the Ganges Kartaki Ganges fair is held annually in November with a good gathering. In the month of August a fair called "Chhari" is held where a large number of people, mostly chamars above five thousand gather every year.

In MANDAWAR town a fair is held in November at Roohi and Bala wali on the bank of the Ganges.

#### BUDAUN DISTRICT.

The district of BUDAUN occupies an area of 2,010 square miles. It is inhabited by a population of 1,010,180 who speak Urdu and Hindi. The average rainfall is about 36".

The chief crops are wheat and jowar, barley, bajra, maize, gram and rice are also grown. Sugarcane is the profitable crops. Groundnut cultivation is expanding. About four hundred electric tube wells have been constructed for irrigation purposes.

Sugar refinery is the chief industry, cotton weaving, carpentry, brasswork are also done. BILSI was once a famous mart. The exports are grain and sugar and the imports are cloth, salt and metals.

Full particulars about making and recharging batteries are available in MANUFACTURE OF BATTERIES. Re. 1/12. Industry Book Dept., Cal.

**BUDAUN** (population 45,455) —Budaun town with a municipality is a very important business centre. Situated on the railway line it has some advantages over other neighbouring towns. Papier mache penboxes made here have made a name in the market.

**UJHANI** is an important grain and cotton market exporting tobacco, pulses, bailey, cotton and cotton seed, linseed, castor seed, and rape seed. A cotton mill is in operation here.

**SAHASWAN** (population 17,644) is a trade centre in the district.

**Fair:**—The kakora fair held in November, attracts about 3 lacs of people and is the most important fair in this side.

In village Kunwan Danda Qasimpur cattle fair is held during the months of Aghan (December) and Jaith (May). The fair lasts for a week. Bullocks, cows and buffaloes are sold there. The gathering of cattle is approximately 10,000 every season. The fair is held in the 2nd week of both Aghan and Jaith.

### BULANDSHAHR DISTRICT.

The BULANDSHAHR district has an area of 1,914 square miles and a population of 1,136,885. Hindustani is the language spoken. The annual average rainfall is about 26" but 40" is not uncommon.

The chief food crops grown are wheat, gram, maize, barley, jowar and bajra. Cotton and sugarcane are profitable crops in the district.

There are several factories where crude saltpetre is produced. There are several cotton ginning and pressing factories. Calico printing of JAHANGIRABAD muslin of SHIKANDRABAD, pottery of KHURJA, the rugs of JEWAR and wood carving of BULANDSHAHR and SHIKARPUR are important industries of the district. Cotton cloth is woven and glass of a coarser variety is also produced.

Grain and cotton are the main exports and about 40,000 tons or more of cotton are sent away. The imports are metals, piecegoods and salt.

**SIKANDRABAD TEHSIL** (population 2,47,885)—There is one cotton ginning factory at SIKANDRABAD and one iron factory at DANKAUR Railway Station, where sugar cane crushers, sugar centrifugal machine and grinding mills etc., are manufactured. SIKANDRABAD proper is famous for muslin and turbans and no other important industry is carried out in this tehsil and also there are no possibilities of the same for the present. Desi shoe making business is also carried out. Grain, cotton and gur are the main exports, about 1,34,000 mds gur, 92,000 mds grain and 24,700 mds cotton were exported from this tehsil during 1937-38.

The following are the market places with weekly hats — JUGHANA, DADRI, JARCHA, GORUPUR, JHAJHAR, BILASPUR, DANKAUR, SIKANDRABAD, SURAJPUR and BIDPURA. In all these markets generally the articles of daily use, i.e., grain, gur, vegetables, bisakhana articles, leather and desi shoes, etc., are sold. There is a ghee union named "The Central Co-operative Ghee Union, Limited," at DADRI.

**ANUPSHAHR** is known for cotton, indigo, sugarcane and sugar, and the latter commodity is exported in considerable quantities to Cawnpore and Bulandshahr. It is a depot for the import of timber and bamboos down the Ganges.

**DEBAI**, 26 miles from Aligarh, is a market for cotton and wheat, and there are ginning and pressing factories in the town. Local trade is carried on with numerous small towns where markets are held once or twice a week. It is the largest centre of trade in bamboos and timber.

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Full particulars about making and recharging batteries are available in **MANUFACTURE OF BATTERIES**, Re. 1/12. Industry Book Dept., Cal.

**KHURJA** (population 31,279) —The chief articles of trade are gram, wheat, linseed, mustard, kalai, masuri, arhar, castor seed, janera. Of these, mustard and ghee are of excellent quality and are in large demand in Calcutta and elsewhere. They are obtainable here in large quantities. Cumin seed and ajawan are imported here by carts and sent away by rail. The articles are generally sent to Patna, Bhagalpur, and Monghyr. Ghee is an important article of trade here. The locally made potteries are much appreciated and have lately found favour even in Canada. Khurja is a big centre for bamboos and timber.

**JEWAR** is famous for carpets and durries. Other important trade centres are **BULANDSHAHR** (population 24,989) and **SIKANDRABAD** (population 18,974).

The Grand Trunk Road from Calcutta to Delhi passes through the district which is served by a network of railway lines (E. I. Ry.).

**Fairs** —In **ANUPSHAHR TAHSIL** —Kaitiki Ashnan fair is held at **ANUPSHAHR** and **RAJGHAT** in the third week of November. (Kartiki Purnamashi). A religious fair is held at **KARANBAS** called **Dashera Jaith** in June. In **SIKANDRABAD TAHSIL** —Sikandrabad, Holi, March, Ram Naumi, April, Barahi, April, Tiji, August, Raksha Bandhan, August, Baldeo Chat, August, Ram Lila, October, Barahi, October. In **MOHANA** —Budha Babu, February, May and September, In **Gangol** Baldeo Bhat, August, In **Vair Badshahpur**, Budha Babu, February and May, In **Kakor**, Barahi, April and October. In **Surpela**, Budha Babu, February and May, In **Bahabas**, Budha Babu, February and May, In **Dujana**, Telhandi, March, In **Kot**, Budha Babu, February and May, In **Dankaur**, Janamastmi, September, Holi Maich, Raksha Bandhab, August, Mohanam, Maich, In **Bilaspur**—Budha Babu, February and May, In **Jhajpur**, Budha Babu, May, In **Kasua**, Dasehra Jeth, June, In **Ghat Aurangpur**, Dashera Jetha, June, and **Kaitik Ashnan** November, In **Surajpur**, Barahi, April. In **PARGANA KHURJA** —Khurja, Ram Lila, Kunwar Badi Ikashi to Purn Mashi, and Sil Satam, Chit Badi Satam, Achhegakhurd, Budha Babu, Magh Bisakh, Kamalpur Haisar and Mirpur, Budha Babu, Sudi Dough. In **P. PAHASUE**, Ramhila Kunwar Badi Ikashi to Purn Mashi, and Budha Babu, Magh Baisakh, Sudi Dough. In **P. JEWAR**—Rampui, Kadki Ashnan, Katak Sudi Purn Mashi and Dasarea, Gacith Sudi Dashmi, Jahangirpur, Budha Babu, Dough Sudi, Baisakh and Magh Jewar Baldevchat, Bhadon Sudi Bhat, and Urs Shakar Baras on Shaharat, Rahupura, Dasara, Kunwar Sudi Dashmi. District Exhibition fair is held every year in Bulandshahr in February.

#### CAWNPORE DISTRICT.

The **CAWNPORE** district stretches across an area of 23,70 sq miles and is inhabited by a population of 1,212,253 who speak Urdu and Hindi. The annual average rainfall is about 34"

**CAWNPORE** (population 243,757) —It is a junction between E I R, B B & C I, B & N W and G I P. Railways and has become the great collecting and distributing centre for the north of India. Cloth comes from the Doab and Bundelkhand intended for Oudh, and elsewhere, cotton from Calcutta and Oudh, wheat and other grains from Calcutta, iron from Calcutta and Central India for Oudh and the Doab, salt from Calcutta and Rajputana for Oudh and Bundelkhand, sugar from Benares, Bihar and Oudh for Bundelkhand and the Punjab; and oilseeds from Calcutta and Bengal. Cawnpore has thus become the great centre of exchange for Northern India. **CAWNPORE** city is the most important manufacturing centre in U P. Cotton pressing and ginning are important industries here. These are situated in the great

**Principles of construction of storage batteries and their care are dealt in Manufacture of BATTERIES. Re. 1/12. Industry Book Dept., Calcutta.**

cotton centre of Couperganj Other factories in Cawnpore include sugar mills, where rum is also manufactured, jute mills, flour mills, brush and tin box making works, iron foundries, tape weaving, cabinet-ware and chemical works There are many cotton mills and oil mills, the products of which are distributed throughout the different parts of India Tanning and manufacture of leather is an important industry here Cawnpore is the centre of sugar trade of the interior There are also many workshops There is a Government Harness and Saddlery Factory and the Army Boot and Equipment Factory Tent making is a very important industry in Cawnpore and is carried on by many manufacturers as well as by the large concerns Woollen fabrics of all description are produced in the woollen mills The wool for them is obtained mainly from the Punjab and Tibet, while a certain amount is imported from Australia

The agricultural products obtainable here include arhar, masuri, khesari, pulses Blankets, hides and skins and leather goods from the leather factories are famous Refined sugar, cotton seed, jowar, castor, ghee, oil, til, mung, kalai and oil-cakes are sufficiently available and are exported in large quantities Oil is sent to Bengal and oil cakes go to the Punjab Kalai and mung are of good quality The pulses are split on a large scale and made into dals which are sent to Bengal There are large factories which send their products to England Bristles are also obtainable in large quantities and constitute a profitable business with little experience The major portion of these bristles are sent to Europe but several factories produce brushes Hides and skins are available in large quantities

KOCH —It is a centre of trade for soft ghee which can be had here in enormous quantities Grains and seeds are also obtainable here but is not a lucrative business The climate of the place is good

#### DEHRA DUN DISTRICT.

The DEHRA DUN district occupies an area of 1,202 sq miles and contains a population of 266,244 Hindustani and Pahari are the languages spoken The average rainfall varies Dehra-Dun 90", Rajpur 120", Mussoorie 95", Chakratata 86"

The district is covered with forest Reserve forests cover an area of 420 sq miles The timber available are sal, haldu, amla, bahera, sain and jamun, bamboos are not rare, acacia catechu and shisham are seen Sabai grass for paper making is also available in plenty. Tea is grown extensively in this district

Lead and sulphur mines are found on the Tous river and in the limestone below Mussoorie Lime and gypsum are found

Cotton-weaving is carried on for local consumption. There is a sugar factory at DOIWALA

The chief exports are bamboos, timbers, lime, charcoal, rice and tea and imports are hardware, cotton cloth, blankets, salt, sugar, grain, tobacco and spices The hill products are rice, ginger, turmeric, red-pepper, honey, wax, lac, gum, resin, etc all of which are available sufficiently DEHRA DUN exports large quantities of fruits

DEHRA DUN (population 57,183) is the head quarters of the forest department of the Government of India The Government Forest College is situated here

MUSSOORIE (population 5,935) is an important hill station and sanatorium in the Dehra Dun district It is an important educational centre for European and Anglo-Indian boys, containing some 15 schools for both boys and girls

DEHRA, LANDOUR and MUSSOORIE are famous health resorts and are of growing importance to traders

Principles of construction of storage batteries and their care are dealt in Manufacture of BATTERIES. Re. 1/12. Industry Book Dept., Calcutta.



There are following metalled roads—Dehra Dun to Saharanpur, Dehra Dun to Chakrata, Dehra Dun to Mussoorie, Dehra Dun to Haridwar, Haridwar to Rikinkesh, Chakrata to Saharanpur, Kalso to Harharpur, etc

Fairs —Important cattle fairs are —Bhaniawala, Nalapani, Nagai Religious fair at Gang Bhewa and Dehra-Dun

#### ETAH DISTRICT

The ETAH district occupies an area of 1,718 sq miles and its population is 987,003 Urdu and Hindi are the languages of the district The average annual rainfall is about 30"

Trees and groves are scarce, but reeds are found in plenty in the Terai and used for thatching and rope making Munj grows abundantly in the Ganges Khadiars of Kasganj and Aliganj tahsils of the district

The chief industries of the district are cotton-weaving, sugar refining, and preparation of saltpetre and sulphate of soda There is a sugar factory named Neoh Sugar Factory, at MANPUR NAGARIA in tahsil Kasganj

The chief exports are wheat, cotton, barley, pulses, millet, sugar, saltpetre, etc The main imports are piecegoods, metals, salt, which are carried by railway but a great deal of trade passes by road to the adjoining districts

The chief trading centres are KASGANJ (population 28,465), JALESAR (population 12,142), SORON (population 12,886) noted as a place of pilgrimage, and GAYDUNDWARA (population 8,519)

ETAH town (population 15,147) is a trade centre and is reached via Aligarh, Kasganj, Shikohabad

ALIGANJ is a big centre for collecting grains, seeds, cotton and gur, which it sends to THANA-DARYAGANJ station on Cawnpore-Achmra Railway about 9 miles away

Fairs—Maragshri fair at Saron in Kasganj held in December, Retashah fair at Qadirganj held in December

#### ETAWAH DISTRICT.

The ETAWAH district extends over an area of 1,061 sq miles and is inhabited by a population of 746,005 who speak Hindi in general and Urdu in rare

The acreage under main crops in 1940-41 is as below—Rice 30,076, wheat 68,941, wheat and gram 50,598, wheat and barley 10,437, juar and juar arhar 54,929, bajra and bajra arhar 159,010, maize 57,778, oilseeds 3,972, sugarcane 16,736, cotton and cotton arhar 4,946, fruits and vegetables 2,059

Cotton cloth is woven in many of the villages, JASWANTNAGAR is famous for cloth There is considerable trade in ghee which comes generally from the adjoining villages of Gwalior State and Agra District and is sent to Calcutta, Agra and other important centres The imports are mainly piecegoods, metals, drugs, spices and kerosene oil

ETAWAH (population 46,348) —It is a commercial centre Its importance is waning on account of the appearance of a good market at BHARTHUA 13 miles east of it, just on the E I R. main line The articles of trade consist of grains, wheat, linseed and mustard seed, kalai, ghee, oil cakes, masur, arhar, castor seed, etc, are obtainable in large quantities The seeds and grains of this place have little admixture and ghee of this place is very good Goods are imported from the interior by carts and are sent away by rail Ghee Grading Stations have been opened for scientifically testing ghee Electric Power is available in the town. Horn frame industry and jute and hand woven cloth industry have been developed of late A

Methods of Imports and Exports are discussed in full in TRADER'S MANUAL, Re 1/4, Industry Book Dept., Shambazar, Calcutta.

technical school has been opened at Manikpur which is very close to Etawah

**BHARTHUA**—It has sprung up recently from the remnants of Etawah, Aheipuri and Lakhua Towns. It is now a big commercial centre for grains. Wheat, gram, ghee, oils and arhar are the chief exports. It has a High School and an oil mill. Goods are brought here by carts from the interior and sent away by rail.

**AURAIYA**—This place is well known for the soft ghee, adulteration has decreased on account of its scientific testing but vegetable ghee has developed at all the places in the district and its adulteration is being done all through out. The grain mandi has developed. Grains from the interior as far as Jalaun district by carts pour in large quantities. Exports in gram, oilseed, wheat and ghee are done and sent away by rail from Phaphund station 12½ miles off it. Thus Dibiapur village on the Phaphund station has developed. It has a cotton pressing mill and a Rasayansala which supplies medicine for the district and outside.

**Fairs**.—Important cattle fairs in the district are Etawah, Exhibition Fair Nov., Achelda, December and January, Doba, Dec.; Ajitmal, June; Bhikipur, Dec.

#### FARRUKHABAD DISTRICT.

The FARRUKHABAD district has an area of 1,719 sq miles and a population of 877,392. Hindi and Urdu are the languages. The average rainfall amounts to about 34".

Principal crops are wheat, barley, jowar, bajra, maize, gram, pulses, cotton, tobacco, fruits and vegetables. Potatoes are also grown.

The district is celebrated for cloth printing which has great demand among the European. Gold lace, brass and copper vessels are also made here. Tents are made at the central jail. There are several flour mills.

The chief exports are tobacco, potato, fruit, bhang, saltpetre, cotton prints, scent, brass and copper vessels, and the imports are grain, piecegoods, salt, timber and metals. It has considerable trade with Central India and Rajputana.

FARRUKHABAD (population 56,503) has a large trade in potato, tobacco and mango. Domestic brass and copper utensils are made extensively.

**KANAUJ** (population 20,360).—There are several flower gardens and the place is noted for its rose water, otto, rue, scented oils, pickles, chutneys and jellies. The place is also noted for calico printed cloths with nice colours. These things are exported to different parts of India. The place is healthy.

**Fairs**.—Important cattle fairs in the district are. Singhirampur Jeth Sudr 10th, 5 days and Kartik Sudr, 5 days, Dhar Ghat, Jeth Sudr 10th and Kartik Sudr 15th one week each (both horse and cattle), Kampil Jeth Sudr 10th, 3 days and Kartik Sudr 15th, 3 days, Ahrawa Raja Rampur Magh Sudr 5th, 8 days, Rasulpur, middle of January, 15 days (both horses and cattle), Tirwa, Baisakh Sudr 3rd, 1 day.

#### FATEHPUR DISTRICT.

The FATEHPUR district has an area of 1,585 sq miles and a population of 688,789. Urdu and Hindi are languages. Average rainfall amounts to about 34".

The crops grown are rice, wheat, barley, jowar, gram, pulses. An important religious fair takes place at SHIVARAJPUR on the Ganges.

The district is celebrated for ornamental whips made at FATEHPUR (population 18,947) and for artistic bed covers, curtains and

Methods of Imports and Exports are discussed in full in **TRADER'S MANUAL**, Re. 1/4. Industry Book Dept., Shambazar, Calcutta.

awnings of JAFRAGANJ Playing cards are made at KHAJUHA. Manufacture of tat patties is carried on in villages round BINDKI

EINDI is the commercial centre of the district, the exports being grain, cotton, hides, and ghee and the imports consisting of piecegoods, metal, salt and oils. Markets are held weekly in many villages including KISHANPUR (Ekdala). Trade is generally carried by rail but road traffic with the surrounding districts also exists.

Fair.—An important fair held in the district is —Sheorajpur, Khajuhā S D, Kartiki Fair, November 7 to 13

#### FYZABAD DISTRICT.

The FYZABAD district occupies an area of 1,689 sq miles and contains a population of 1,319,425 who speak Hindi and Urdu. The average rainfall is about 42".

The crops grown are rice, wheat, barley, gram, pulses and sugar

Cotton weaving is the chief industry. TANDA (population 26,128), AKBARPUR and JALALPUR are the noted places for muslins. Dyeing and printing are also carried on.

The chief exports are rice, sugar, grain, cloth, oilseeds, hides, tobacco and the imports are piecegoods, metal, salt and kerosene oil.

GOSAINGANJ and AKBARPUR are the important trade centres.

FYZABAD town, the Sadar Station, is an important centre for sugar refining and has a considerable trade in both agricultural products and imported goods.

AJODHYA is a place of pilgrimage during Ram Navami, Kartiki Purnamashi and Sawan Jhula. Population of Fyzabad and Ajodhya (Municipality) is 55,215.

SOHWAL is a railway station on E I Ry about 10 miles west from Fyzabad. The Gogra Pumping Scheme has its origin here and the canal begins from this place. Electricity is also generated here and sent to Fyzabad City.

Traffic is carried both by rail and by boats along the Gogra. The district is served by the loop line of the E I Rly (O R Rly Section) which passes through the district.

Fair.—Gobind Saheb (Ahrauli) 10th to 15th of the first fortnight of Aghān, Deorakot, Ramlila, Kunwarbadī, Raipur Ry Stn Salarpur, Bhadon Shudi 14th day, Jalaluddin Nagar, Bilaighat R S Kartiki Purnamashi, Chait Ram Navami and Baisakh Amavas, Dhemma Ghat, Sohawal R S Kartik Purnamashi and Chait Ram Navami, Sihar, Baragaon R S, Aghān Shudi 5th day, Bhadarsa, Bharathkund R S, and of March.

List of cattle fairs and hats —Hats (held from June to October only)—In AKBARPUR Tahsil—Jalalpur, (Tuesday and Saturday), Paikauli, (Sunday and Wednesday), Shahzadpur, (Sunday and Thursday). TANDA Tahsil—Indapur, (Monday and Tuesday), Deoria, (Saturday and Wednesday), In BIKAPUR Tahsil—Chaura Bazar, (Tuesday and Saturday), Barun Bazar, (Tuesday and Friday), Khaliganj Bazar (Tuesday and Friday), In FYZABAD Tahsil—Mohammadpur (Sunday and Wednesday), Suchittaganj, (Monday and Thursday), Goshainganj (Wednesday and Saturday), Bhadarsa, (Monday and Friday), Jalalabad (Tuesday and Friday), Purabazar (Sunday and Wednesday), Tasinpur (Tuesday and Friday).

#### GARHWAL DISTRICT

The GARHWAL district occupies an area of 5,612 sq miles and contains a population of 6,02,102, who speak Garhwali. Average rainfall is about 50" in the centre of the district, but it rises to about

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80" on the skirts of the district near the plains, and to 100" immediately below the snowy Himalayas. The cultivated areas are scattered in tracts of forest and waste land.

The crops grown are manduwa, jhangora, wheat, barley, millets, sesamum, peas, pulses, pepper, ginger, turmeric and mustard.

Copper and iron ores are worked at present, and minerals such as lead, arsenic, graphite, sulphur have been found. A little gold is washed from streams in the Bhabar. Hemp is woven into rope and cloth. Leather goods, mats, baskets, bowls of wood and glass bangles are also made here for local use. Copper utensils are made at SRINAGAR. Kukris and daggers are also made. These things are all of poor quality, and none are made commercially.

There is some trade with Tibet, though it is less important than it was formerly. Salt, wool, sheep and goats, ponies and borax are imported in return for grain and cloth which are taken up to Tibet. Silajit, musk and other minor forest produce are exported from the higher regions. The fringe of the district nearest the plains is almost entirely reserved forest, and there are large exports of timber, mostly of sal and shisham. Chir sleepers are floated down the rivers by the Forest Department from the higher areas, but much valuable timber cannot be exported owing to the absence of modern communications.

Only road suitable for wheeled traffic is the Provincial metal road to Lansdowne, an important Cantonment. In the interior of the district merchandise is carried by mules or by coolies. In the higher parts loads are taken over to Tibet on Jobas (half yak and half cow).

Motor road has been completed up to 35 miles from "Kotowara" to a place called "Satpuli." There is another project to construct a cart road from Shrinagar to Rudra Prayag.

#### GHAZIPUR DISTRICT.

The GHAZIPUR district has an area of 1,302 sq miles and a population of 824,971. Hindi and Urdu are spoken here. The district is well wooded. Average rainfall is about 40.34".

Chief crops are rice, barley, jowar, bajra, gram, wheat, peas, etc.

Sugar is refined and coarse cotton cloth is woven for local use.

The main articles of export are sugar, oilseeds, hides, perfumes, opium and grain, the chief imports are piecegoods, yarn, cotton, salt, spices and metals. The traffic is mainly rail-borne and river traffic has decreased considerably. The trading centres are SAIDPUR, ZAMANIA, YUSUPPUR, MOHAMMADABAD, NANDGANJ, KARANDA and GHAZIPUR but the direction of trade is fast shifting its ground.

GHAZIPUR (population 27,498) prepares opium for export and has a Government factory and depot. Ghazipur is noted for its rose gardens and rose water industry.

**Fairs.**—Important fairs and exhibitions are—Chochakpur, Kartik sudi 11 to 15, Ram Lila, Ghazipur, Kuar Sudi 4 to 10, Ghazimian, 1st. Sunday of Jaith, Dhanushyag, Suhwal, Aghan Sudi 5. Tahsil Mohammadabad, Ram Naumi (Karimuddinpur) Chait Sudi 9, Tirmohani (Nagwa alias Hanuman Chankia), Bhadri Sudi 12. Cattle fair (Unchanri) in April for 15 days.

#### GONDA DISTRICT

The GONDA district has an area of 2,875 sq miles and a population of 1,576,003 who mostly speak Hindi and Urdu. The district is well wooded. The forests contain sal, asua, dhan, khair, mango, mohua, shishu, etc. The annual average rainfall is about 45".

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## 468 INDUSTRY YEAR BOOK & DIRECTORY, 1943

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Chief crops are Rice, wheat, barley, maize, gram, pulses including peas, masuri and sugarcane

Coarse cloth is woven for local use Small ornamental pottery is made at UTRAULA Cane and basket weaving is an important industry of the district. The exports consist of rice, peas, maize, timber and fuel The imports consist of piecegoods, salt, metals and refined sugar

NAWABGANJ and COLONELGANJ are the most important trade centres UTRAULA and TULSIPUR are also big markets The transport is mostly done by railways but small traffic is also carried over the Rapti and Gogra There is also a small trade with Nepal

GONDA (population 17,450) —Situated on the O & T Rly, main line, it is 136 miles from Gorakhpur and 75 miles from Lucknow A branch line from Gonda goes as far as the border of Nepal There are several oil mills and 4 sugar making factories the products of which are sent to different parts of the country and especially to Calcutta The chief manufacture is sugar Brass and copper utensils, are also made here The town has a considerable trade in agricultural products

BALARAMPUR (population 19,311) is another trade centre in the district

### GORAKHPUR DISTRICT.

The GORAKHPUR district has an area of 4,528 sq miles and a population of 3,567,561 who speak Hindi and Bhojpuri dialect. The average annual rainfall is about 45"

Mango, mahua, fig, shisham, jack-fruit, black-berry and guava are the principal trees Chief crops are —rice, wheat, barley, maize, gram, pulses, condiments and spices, sugarcane, fodder, tobacco, fruits and vegetables, poppy and Indigo

Agricultural crops are the main items of export, these are rice, barley, wheat, and sugar Timber and oilseeds are sent to Calcutta. The chief imports are salt, metal, kerosene oil, all from Calcutta

Chief among the industries may be mentioned gur making There are a large number of khandsari sugar factories

The trade with Nepal consists of imports of considerable quantities of rice, ghee and spices The trade is carried on at the numerous small towns and markets, BAHRAJ being the most important of them But most of its trade is carried on with Cawnpore, Calcutta, Rajputana, Central India and Eastern Bengal

GORAKHPUR (population with cantonment 75,644) —It is the headquarters of the district Grains and seeds are imported here by rail from Chapra and the surrounding countries There are a large number of sugar factories Split pulses are made from ahar, masur, gram and khesari, and these are sent down to different parts of the country and largely to Calcutta Timber is brought here from the Nepal border and there are several timber godowns There are several saw mills, cabinet making factories and also tanneries Other industries include cloths of mixed cotton and wool

Roads are good and convenient and the O & T Rly. passes through the district Traffic is carried mainly by rail

### HAMIRPUR DISTRICT.

The HAMIRPUR district comprises an area of 2,439 sq miles and contains a population of 502,639 Bundelkhandi, a dialect of Hindi, is spoken Average rainfall is about 36"

The crops grown are gram, jowar, wheat, sesame, arhar, kodan, bajra, and barley A little sugarcane is also grown The water supply of the district is defective though it is chiefly an agricultural district

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Coarse cloth is woven Silverware is produced The chief characteristic of the district, however, is that it has no central market.

The exports are wheat, jowar, bajra, gram, cotton, ghee and pan (to Calcutta), oilseeds and cloth The imports are sugar, tobacco and spices, salt, rice, piece-goods and metals Trade of the northern portion is mainly carried on by road with Cawnpore and that of the southern portion is chiefly by rail

A cattle market is held twice a week at SUMERPUR.

### HARDOI DISTRICT

The HARDOI District comprises an area of 2,317 sq miles and a total population of 1,127,626 Hindi and Urdu are the languages spoken Sadar station is Hardoi

The chief crops are wheat, barley, rice, jowar, maize, bajra, sugar-cane, gram, pulses, mangoes, and vegetables SHAHABAD and SANDILA are famous for their graft mangoes There is one important cattle fair which is held twice a year in Tahsil Bilgram at SAMARIA in which cattle are sold in large numbers It is held for 15 days each in Pus and Baisakh months GHAUSGANJ cattle fair is another big fair held in Tahsil Sandila.

Cotton cloth is woven mainly for local use, Curtains and table cloth of SANDILA have become famous Blankets, rope-sacking, strings, etc are made at MALLAWAN Carpentry thrives at SANDI, MALLAWAN and BILGRAM

The chief exports consist of raw sugar, tobacco, hides, cattle, salt-petre, gur, wheat, gram, barley and sarson, the imports are salt, metals, piecegoods, refined sugar and cotton Its trade is chiefly with Bombay, Calcutta, Allahabad, Delhi and Meerut and in gur with Bundelkhand SHAHABAD and MADHOGANJ are two very good gur mandies in the district

The abolition of the branch line of the E I Rly from Balamau to Sandi from 1—9—41 is another change which is of marked importance. Since the discontinuance of this Railway system, south western portion of the district is not now served by a Railway line

The District is well served by E I Rly. Trade is both rail and road borne

### JALAUN DISTRICT.

The JALAUN district comprises an area of 1,549 sq miles with a population of 426,022 who speak Hindi and Urdu The rainfall is about 32". Acacia and catechu are the most common timber in the district, which is but sparsely wooded.

The chief crops are wheat, gram, jowar, bajra, linseed.

Cotton dyeing and printing is carried on.

There is cotton gin and press at AIT. The chief exports are grain, oilseeds, cotton, ghee and the bark of babul (for tanning material) which is available in large quantities Imports consist chiefly of piece-goods, hardware, and metals Its trade is mostly with the southern and the western parts of India

The trade centres are KUNCH (population 15,150) KALPI, JALAUN, RAMPURA and MADHOGARH The traffic is both rail and road borne

### JAUNPUR DISTRICT

The JAUNPUR district has an area of 1,550 sq miles and a population of 13,86,995 who speak Hindustani and Hindi The average rainfall is about 30.36" on the average

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The chief crops grown are barley, rice, peas, masur, maize (very famous), gram, wheat, arhar, millets, sugar-cane, hemp and oil seeds. Local Kharbuzas are as good as Lucknow ones. Local guavas are also very famous.

Sugar making is the important industry of the district. Coarse cloth for local use are woven and scented oils of good quality are manufactured in abundance.

The chief articles of export are sugar, food grains, scented oils and scents, oil seeds and carpets. The chief imports are salt, piece-goods, metals and spices. Rugs for military use are manufactured in Tahsil Jaunpur.

**JAUNPUR CITY** (Population 44,964). The city is surrounded by flower gardens and is noted for the manufacture of perfumes from roses, jasmine, screw-pine and the root of Khaskhas. Otto, rose-water and scented oils are exported. The commercial articles such as tora mustard, poppy-seeds, ghee are obtainable here in abundance and are largely exported by rail to Calcutta and other places in Bengal, Bihar and Orissa. The chief exports from this district go to Calcutta. Now-a-days cigar cases are not made here.

**KERAKAT**, a railway station on the O & T. Railway and is 18 miles from Jaunpur, produces rice and sugar.

**MACHHALISHAHAR** exports wheat, oil-seeds, sugar and imports woollen cloth, cotton cloth and other merchandise.

**SHAHGANJ** is a junction station on O & T. Railway and E I Railway and 145 miles from Lucknow. It is a trade centre of sugar and cotton. There is a big sugar Ratana Mill at SHAHGANJ.

**ZAFARABAD** is a town and a junction station on E. I. Railway 3 miles east of Jaunpur. A new Railway line named L. S. Z. Railway has lately been opened from here to Lucknow.

**MARIAHUN** (12 miles south of Jaunpur) is noted for carpet industry which is exported to Bhadohi in the Benares State.

**MONGARA BADSHAHPUR** is a town and railway station on the main line of E I Railway. Besides being a chief trade centre, soap for washing clothes is manufactured in abundance and is mainly exported to Nepal State. The district on the whole is well supplied with roads and railways.

No agricultural, industrial and cattle fairs are held in this district.

### JHANSI DISTRICT.

The JHANSI district occupies an area of about 3,600 sq miles and is inhabited by a population of 7,73,853 whose languages are Urdu and Hindi. The average annual rainfall is about 32".

The chief crops grown are jowar, kodan, small millets, gram, wheat, barley, rice, and oil-seeds mainly sesamum. Coarse cotton cloth (known as kherua) is still woven here and ornamental works are done at ERICH. Small woollen rugs and good quality silk cloth are woven at JHANSI.

JHANSI and MADURA are noted for brass work and Jhansi has a big railway workshop. The chief articles of export are oilseeds, ghee and betel, all of which are sent in big quantities and are valuable. Gram, forest products and road metal are also exported. The imports are sugar, kerosene oil, salt and grain. The chief centres are JHANSI, MAURANIPUR, LALITPUR and CHIRGAON. There is also a good local trade with the Indian States on the border.

There is lot of money in Confectionery making. Read **MANUFACTURE OF CONFECTIONERY**. Re. 1/12. Industry Book Dept., Calcutta.

**JHANSI** (population 1,03,324) is 799 miles by rail from Calcutta and 702 miles from Bombay. It is an important place of collection and distribution of agricultural products in the district. All sorts of grains and seeds, cotton, ghee, blankets, rope, etc are available here in plenty. *Satranjees* and *galichas* of this place are famous. These things are manufactured on a large scale in factories and are generally exported to different parts of U P, Bihar and Bengal by rail.

Fairs are held at —Deviji, Dekohi, Deviji, Patha, Nag Panchami, Garathakalan, Vishwamitra, Godha, Kedarnath, Haibatpura, Anand or Sreenath, Maior, Dura Devi, Erich, Miran Shah, Erich, Baidnath Mahadeo Jiu, Bhumi, Ramhla, Erich, Deviji, Erich, Gosain, Suta; Piron Ka Mela, Talbehat.

#### KHERI DISTRICT.

The KHERI district comprises an area of 2,976 sq miles and a population of 944,479 who speak Hindustani and Pahari. Rainfall is about 40" per year.

Wheat and sugarcane are the chief agricultural products, rice, maize, gram, pulses, barley, rapeseed are also grown. *Sabai* grass used in paper making is available in abundance in the south Kheri forests.

Area under crops during 1939-40 —Wheat 184,638 acres, barley 45,265 acres, gram 109,562 acres, rape and mustard 19,511 acres, til 1,432 acres, groundnut 35,664 acres, castor 5 acres, linseed 1,422 acres, tobacco 1,459 acres, pulses 16,098 acres, rice 243,392 acres, maize 78,897 acres, sugarcane 135,500 acres, cultivated area 631,920 acres.

The Khairigarh and Parehar breeds of bullocks are well known.

**GOLA** is a flourishing town on the R & K Railway where the Hindusthan Sugar Mills Ltd, is situated. The cultivation of sugarcane has increased considerably.

Manufactures consist of weaving and cotton printing. Manufacture of domestic utensils is carried on at OEL and KAIMAHRA. It is one of the important centres of cattle breeding in U P. There is one sugar factory at village KHAMARIA.

The principal exports are grain, sugar, turmeric, tobacco, hides, syrup, forest products, cattle and ghee. The imports are piece-goods, metals and salt. The principal trading centres are LAKHIMPUR, MOHAMDI and GOLA.

The chief town, the administrative headquarters and sadar station is at LAKHIMPUR (population 17,497) which is a Railway Station on the R & K Railway and lies on the right bank of the river UI.

**Fair.**—Only one cattle fair takes place at Maigal Gunj under the management of Khan Sahab Syed Kazim Husain of Aunangabad once. One cattle fair takes place at Gola Gokarannath at the time of Shivaratri Fair, at Gola, another at the time of Chaiti fair at Gola.

Only one cattle fair takes place at Lakhimpur proper on the occasion of the Ram Lila in the third and fourth week of Kunar each year.

#### LUCKNOW DISTRICT.

The LUCKNOW district comprises an area of 967 sq miles and a population of 949,728 speaking Hindi and Urdu. Annual rainfall is 36".

The chief crops are rice, wheat, pulses, gram, barley, jowar, and bajra.

**LUCKNOW** (population 387,177) —It is the largest city in the United Provinces and the fourth largest in British India. Cotton fabrics of all grades are manufactured. The place is also celebrated for embroidery with gold and silver thread. Cotton dyeing and printing is still a flourishing industry. The silver works enjoy good reputation.

There is lot of money in Confectionery making. Read **MANUFACTURE OF CONFECTIONERY**. Re. 1/12. Industry Book Dept., Calcutta.



while damaskeening of silver on other metals has been revived. The brass and copper wares and domestic utensils of all kinds are produced. Ivory carving is carried on to some extent but wood carving is much more important. Fancy ivory broaches and powder boxes made at Lucknow have been appreciated in Europe and America. The local potters produce various kinds of artwares, some of which are distinctly good, while the clay modellers of LUCKNOW are pre eminent in the whole of India. Among the minor products are tobacco, shoes and perfumes. Hosiery making is now carried on.

There are a number of factories and workshops, railways and iron foundries, waterworks, electricity and ice making factories. The imports are grain, piecegoods, metals and hardware, sugar and salt. The chief exports are the goods of local industry as cotton fabrics, gold lace, silver and gold works, ivory and wood carving, chikan, kamdani, pottery, tobacco, and perfumes.

LUCKNOW is the only important trade centre in the district. It enjoys unique advantages in regard to communication, whether by rail, road or river. A considerable portion of the great export trade in wheat and grains from the northern districts on its way to Cawnpore passes through Lucknow. Similarly the greater part of Cawnpore's export trade is transmitted through this city. The only paper mill in the United Provinces which dates back to the last century is at Lucknow.

Traffic is carried by railways (E I Rly, O & T and R & K Rly) which practically traverse the district which is also well supplied with metalled roads.

#### MAINPURI DISTRICT.

The MAINPURI district occupies an area of 1,197 sq miles and is inhabited by a population of 749,633 speaking Hindi and Urdu.

The district contains extensive groves of mango and shusham. Chief crops are —Wheat, barley, jowar, bajra, maize, pulses, gram.

Wood carving and making of glass bangles are the chief industries. Inlaid work is done by cutting narrow grooves, on the designs. Into these grooves brass ribbon is set in edgewise and polished. The designs are old. Cotton ginning and spinning and indigo making are the chief factory industries.

The chief exports are wheat, oilseeds, hides and skins, and cotton. The important imports are salt, metals, piecegoods, sugar, tobacco and rice.

SHIKOHABAD —It stands on the main line of the E I Rly. Potatoes, gur, ghee and cotton are available here in sufficient quantities and are exported by rail.

MAINPURI town (population 14,928) contains a fort.

A branch line of the E I Rly crosses the district and carries the major portion of the traffic.

#### MEERUT DISTRICT.

The MEERUT district comprises an area of 2,379 sq miles and a population of 1,601,918 speaking Hindustani. The average rainfall is about 30".

The district produces rich crops of wheat, gram, maize, jowar, cotton and sugarcane.

The chief industries of the district are tanning, cloth weaving, blankets, cutlery, jewellery, cloth, glass bangles and furniture making. There are several cotton presses, soap factories, rice, indigo, flour and oil mills. Gur is made on a large scale. Sugar forms a large part of the industrial life of the district which claims 7 sugar mills. Heavy brass and copper vessels and hukkas of galvanized sheets are made at

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**HAPUR** Hardwares are also made at **KISHANPUR** and **BAOLI** and also in **BAGHPAT** tahsil Band musical instruments and hosiery are made in Meerut tahsil where a cardboard factory has been recently started The Central Distillery and Chemical Works at **KANKER KHERA** produce rectified spirits

The chief exports are wheat, sugar, gni, oilseeds, cotton, etc., and the important imports are metals, cotton cloth, building materials, timber and bamboo, ghee, drugs, and spices

**SARDHANA TAHSIL**—Khaddar, blankets and confections are made in the tahsil There are two sugar factories in the tahsil, one at **DAURALA** and another at **SAKOTI** A cattle market is held every Tuesday one mile from Sardhana proper.

**MEERUT** (population 136,709)—It is the biggest commercial centre in the district The local products are wheat, gram, linseed, mustard seed, castor seed, masur, khesari and chaki gur, cotton, etc All these are exported from this place by rail, of these wheat, chaki gur and cotton are exported in large quantities Scissors, soap, and caps are manufactured It is an important centre for khaddar and hosiery goods made from handspun yarn

**MAWANA TAHSIL**—Cattle fairs are annually held in villages Phitkari, Nilaha and Hostinapore, the last being attended by the Jain community and has religious significance

**GHAZIABAD Tahsil**—Weaving and dyeing of khaddar cloth industry in **PELAKHUA** has greatly increased this year Export of cloth, printed covers of lhalfts, quilts, table and bed cloth has greatly increased. Very fine cloth and printed material is now manufactured at **PELAKHUA** A cattle fair is held at **SAPRAWAT** every Wednesday

**GHAZIABAD** (population 27,071)—It is a big and very important Railway Junction of E I & N W Rlys, some 12 miles from Delhi. It is also a big grain market, grain is stored in khattis Wheat, cotton and cane are the main crops Chief imports are general merchandise, wheat, cotton, bajra, gram, and groundnut Chief exports are wheat, gni, sarson, sugar, vegetable-ghee, sarson oil, and khaddar cloth There is a vegetable-ghee and oil mill viz, Vanaspathi Mills just outside the town on the G T Road

**PILKHUWA** is an important town in Ghaziabad sub-division It is a big centre of khaddar-cloth trade, and the work of cloth printing is of a very high standard and is carried on a large scale and exported in mass quantity to various parts of India It is a Rly. Station on Delhi-Moradabad line

**BEGAMABAD** is also a railway station on Delhi-Meerut line Here Modi Sugar Mills stand, manufacturing cotogem, soap, and sugar.

**MORADNAGAR**, a railway station, has a sugar mill

**BAGHPAT TAHSIL**—It is a wheat and sugar producing area. Agarwal Mandi at village Tatiri just close to Baghpat Road Railway Station is a big coin exporting Mandi, where wheat and the like food stuff is available in all seasons The other town **BARAUT** is also flourishing day by day on account of trade specially in wheat and gur. Village **RATAUL** also lies in this tahsil which is famous for the produce of grafted mangoes Numerous varieties of good mangoes are found

**HAPUR TAHSIL**—Heavy brass and copper vessels are made, which is prominent export Cattle mart in the Tahsil are Seraan (Fridays only) and Tiala (Thursdays only)

Fairs —On the occasion of Kartic Purnima (full-moon day in the month of Kartic) a fair is held on the banks of the Ganges at **GHORH-MUKTESHWAR**, a place in Hapur Tahsil at a distance of near 30 miles from Meerut **NAUCHANDI** fair is held in Meerut, at the end of

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## 474 INDUSTRY YEAR BOOK & DIRECTORY, 1943

March or beginning of April every year. It is one of the biggest fairs in Northern India and lasts for 7 to 10 days. Agricultural and industrial exhibitions and horse show are special features of the fair.

### MIRZAPUR DISTRICT.

The MIRZAPUR district comprises an area of 5,213 sq. miles and a population of 9,01,435. Hindi and Urdu are the languages spoken. The average rainfall amounts to about 42".

Chief crops are Rice, barley, wheat, jowar, bajra, gram, pulses, linseed, sesamum. Other crops are maize, sugarcane and poppy.

Deposits of coal are found while stone is quarried in the district. Building stone, iron ore, mica and iron pyrite are found here sparsely distributed. Coal quarries are not worked because of poor communications.

The chief industry of the district is carpet weaving. Shellac is also manufactured extensively in MIRZAPUR Town and metal utensils are also made. A Government Stone Mahal Department regulates the quarrying of stones and MIRZAPUR is one of the important exporting centres for building stones. A tassar silk industry exists in AHRAURA. In CHUNAR there is a cottage pottery industry, which is undergoing rapid improvement. In AHRAURA the lacquer toy industry is also similarly improving its designs. The chief exports are carpets, shellac, stone, brass and iron utensils, ghee and oil seeds. The imports are brass, iron, copper, salt, grains and cotton piecegoods. The shellac and carpet exports are a record for the Province.

MIRZAPUR (population 70,926) —It is one of the important towns of the U. P. as an industrial centre. The chief industries are the manufacture and export of valuable carpets, which are famous all over the world. Large and small sized carpets are extensively exported to Europe. It is also one of the main shellac exporting centres of the Province and has a good metal utensil industry. Mirzapur building stone is famous and sils, bell-chakhtis and other household articles are exported to Bengal and Bihar.

AHRAURA —Tassar and silk are also woven.

The district has a large trade in gur with the districts of C. P. Local trade is carried on by cart and pack bullocks. The E. I. Rly. passes through it and carries large amount of traffic.

### MORADABAD DISTRICT.

The MORADABAD district stretches over an area of 2,289 sq. miles and is inhabited by a population of 1,284,108 souls who speak Urdu and Hindi. The average rainfall is 39".

Chief crops are Rice, wheat, barley, bajra, jowar, maize, gram, pulses, sugarcane, cotton.

The chief industries are sugar refining, cotton cloth weaving and woollen carpet making, brassware, silvered ware of various description (generally utensils) and pottery. There are cotton ginning and pressing factories at CHANDAUSI. Glass is manufactured at BAHJOI. The Bahjoi Glass Factory has installed plant for the making of sheet glass.

MORADABAD (population 110,562) —It is noted for its plain, enamelled and ornamental brasswares.

CHANDAUSI (population 26,768) —It is situated on the E. I. Rly. and is about 803 miles away from Howrah. The wheat of CHANDAUSI is in active demand in Calcutta. Ghee, chaki gur, mau-mustard and wheat are obtainable here in large quantities. The oil content of the mustard seed of this place is about 15 seers to the maund. It is a chief centre of trade in this part and contains the Railway Training

You like to prepare chocolate, lozenges, drops, etc. Read MANUFACTURE OF CONFECTIONERY. Industry Book Dept., Shambazar, Cal.

School Goods are exported from this place generally by rail to Calcutta and Delhi

Other trade centres are AMROHA (population 44,948) and SAMBHAL (population 44,300).

E I Rly passes through the district which possesses a good many metalled roads

Fairs are —Sambhal, Dasehra (Ramhila), Dhaja (3rd day of Holi), Pheri (4th and 5th day of Dewali), Religious, Bahjoi, Dasera, Religious, Sechavli, Dhaja (3rd day of Holi), Religious, Sadat Bari, Sambhal, Sheoratri, Rajpur, Sambhal, Sheo Ratri

#### MUTTRA DISTRICT.

The MUTTRA district has an area of 1,453 sq miles and a population, of 668,074. Hindustani and Braja Bhasa are the languages spoken Rainfall averages 26"

Muttra district has jungles where acacia, neem and ber trees are fairly common The chief crops are jowar, gram, wheat, bajra, cotton, sugarcane, tobacco and vegetables Cultivation in the district is aided by irrigation from canals, wells and tanks

The chief industries are calico printing, stone carving, silver models of animals, etc There are several cotton gins and presses and indigo factories

The chief exports are grain, cotton, and the imports are salt, sugar, metals, oil seeds and piecegoods

MUTTRA City (population 64,029) —It contains some Hindu temples It is the Sadar station of the district.

BRINDABAN (population 17,148) —It is a place of the great pilgrimage A large number of pilgrims assemble every year on the occasion of the Doljatra and Jhulan

E I Ry. passes through the district which is connected by road (metalled) with Delhi, Brindaban, Agra, etc B B & C I. Rly and G I P Rly also through the district

#### MUZAFFARNAGAR DISTRICT.

The district of MUZAFFARNAGAR comprises an area of 2,666 sq miles and a population of 894,662, speaking Urdu and Hindi. Average rainfall is about 34" a year

The chief exports are wheat, raw sugar, rice and oilseeds

Woollen goods, blankets, camel-wool blankets, pillow and coating cloth are made here Cotton weaving is the most popular industry of the district Calico printing and ornamental curtains are also made. Indigo manufacture was another important industry, but is now dull

The chief crops are wheat, gram, pulses, maize, rice, barley, bajra, sugarcane, cotton and fodder crops The wheat of MUZAFFARNAGAR is highly prized in European markets and commands a fair price. Cultivation is helped by irrigation from canals and wells.

MUZAFFARNAGAR (population 35,347) —The prosperity of the town is largely due to its export trade in wheat and sugar, and the manufacture of country blankets An exhibition is annually held here.

KAIRANA (population 19,589) is another trade mart

The traffic is carried by E I and N W. Rlys which pass through it Local trade is confined to weekly markets

#### NAINITAL DISTRICT.

The NAINITAL district has an area of 2,677 sq miles and a population of 277,286 Language spoken is Hindi. Average annual rainfall varies from 46" to 77".

In the valleys good crops of rice and wheat are obtained. Rape and mustard, pulse, barley, marua, gram, potatoes, tea and spices are

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also grown. The potatoes of NAINITAL, are in huge demand from all parts of the country. Oil seeds, sugar and cotton are produced to a very small extent. Fruits particularly apples and pears grow in KUMAUN. The forest products are sal, shisham, haldu, khair, chir, oak, etc. Building stone, iron, copper, gold, gypsum, sulphur and alum are the minerals obtainable in very small quantities. There is a sugar factory at KASHIPUR, and match and paper (cardboard) factories at HALDWAN. Good quality cotton cloth is woven at JASHPUR.

The imports to the district are piecegoods, salt, corrugated iron sheets and metals, the chief exports are potatoes, chillies, ginger, forest products, rapeseed, etc. The chief marts besides NAINITAL are HALDWANI, RAMNAGAR, CHORAGALLIA, KALADHUNGI, JASHPUR, KASHIPUR, etc.

**NAINITAL TAHSIL**—There are however big fruit orchards particularly of apples in PATTIES, RAMGARH, PURBI AGAR and MALLIKUTOLI of this tahsil from where fruits are exported in large quantities to different parts of India. A fruit growers' association has also been formed to facilitate the grading and marketing of fruits with its headquarters at BHOWALI. Potatoes and chillies which are extensively grown in the hill tracts are exported. Spinning and weaving is practised.

**TAHSIL KASHIPUR**—KASHIPUR also produces good quality Garha cloth both plain and locally dyed and printed. The Chaiti fair early in April is held here. It attracts about 50,000 people on the principal day (9th of Chaitra Sukla Paksh).

**TAHSIL HALDWANI**—Potatoes, chillies, ginger, resin, apples and other hill fruits are exported from HALDWANI to the plains besides the forest produce. Wheat, piecegoods, salt, oil, hardware and other articles pass through this town from the plains to the hills. There is an oil mill here. There is a match factory besides a number of furniture shops. Cultivation of sugar cane has increased considerably.

**TARAI TAHSILS**—Extensive sugar-cane cultivation is carried on and sugar is manufactured.

Rohilkhand and Kumaon Rlys run from Bareilly to Kathgodam. There is a good system of metalled roads. Considerable traffic passes through the district between the plains and the interior of the Himalayas.

Fairs are —Tarai and Bhabar Govt Estate Exhibition, Haldwani, Cattle, Poultry, Agricultural and Handicraft Exhibits, Ranibagh, Near Kathgodam, Maker Sankranti, (January), Bathing Fair, Kichha—Ataria, near Ruddarpur in the month of Chait, Khatima—Nanakmata, 1 week during Devall festival, Khatima—Mela Ghat, 3 days, Kartik Purnamashi.

### PARTABGARH DISTRICT.

The district of PARTABGARH comprises an area of 1,458 sq miles and a population of 906,233. Languages spoken are Urdu and Hindi.

The district is a richly wooded fertile plain and the average annual rainfall is about 33".

Excepting a small portion near the Ganges, the district is fertile, the chief crops being rice, barley, gram, pulses, wheat, jowar, bajra, arhar, peas, masur, sunn-hemp and sugarcane.

Coarse cotton cloth and woollen blankets are woven and mulberries are reared at some places.

The exports are grains, oil seeds, opium, sunn-hemp, hides, etc., and imports are piecegoods, metals, hardware, sugar, etc. BELA the

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Sadar Station, is the chief mart There are however small markets along the railway, BELA is a junction on the E I Rly

The district is well provided with railways and roads

### PILIBHIT DISTRICT.

The PILIBHIT district comprises an area of 1,201 sq miles and a population of 448,438 Languages spoken are Urdu and Hindi Average rainfall is 54.57" Forests rich in sal trees cover a considerable area of the district in the north and the east

Area under crops in 1938-39 —Rice 230,198 acres, wheat 103,529 acres, barley 4,834 acres, jowar, 1,484 acres, bajra, 6,825 acres, gram 74,572 acres, pulses 26,217 acres, oilseeds 1,604 acres, sugarcane 42,081 acres, hemp 6,804 acres, fodder 17,804 acres, fruits and vegetables 5,166 acres, maize 778 acres Cattle are bred

Sugar refining is the important industry Wood carving is also done, besides cart making and boat building Catechu is prepared in the north, and cotton cloth is woven for local supply

The exports are wheat, sugar and rice Rice from Nepal passes through the district which has a big trade in borax, pepper and ginger.

PILIBHIT town (population 36,892) —The trade is chiefly concerned with agricultural products, such as gur and rice It is famous for carved wood work also

NEORIA is an important centre for rice market—a place lying on the way from Pilibhit to Nepal

BISALPUR is an important market for gur and grains on the R & K Rly line Silk is woven Wheat, rice, sugar, sunn-hemp are the exports Piecegoods, hardware and metals make up the imports It is an important depot for the products of Nepal and the Himalayas Carts and bedsteads are largely made and exported It is the chief source of supply of sabai grass Recently "gur" making industry from "Molasses" and "Galawat" has come to stay on a sufficiently large scale

PURANPUR—This tahsil is the chief producing place for "Pine-apples" and famous for "Pomar" bullocks, which are found in Villages KALI NAGAR, MADHO TANDA and PURANPUR KHAS and in the adjoining parts They are much demanded by the eastern districts. There is good trade in bab, sal timber, fish, catechu, honey, cane (bant) and tantar which are exported from PURANPUR.

The district is well served by roads and railways, Lucknow Sitapur-Bareilly branch running through it and connecting it with the great mart of Tanakpur at the foot of the Kumaon Hills

### RAE BARELLI DISTRICT.

The RAE BARELLI district comprises an area of 1,749 sq miles and a population of 106,532 who speak Urdu and Hindi Average rainfall amounts to about 40".

Chief crops are rice, wheat, barley, jowar, bajra, gram, pulses, ahar, kodan and millets Pasture land is scarce

Coarse cotton cloth is woven at JAIS and at RAE BARELLI the finer varieties of it SALON manufactures coarse cloth which is locally consumed

The chief exports are grains, rice, seeds, hides, bones, gram, millet, oilseeds, tobacco and raw sugar, and imports are piecegoods, metals, salt, sugai, and spices

RAE BARELLI town (population 21,004) —It is the chief commercial centre of the district It produces coarse and fine cloths and sends away finer cloths

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Other trade centres are LALGANJ, BAINTI and MAHARAJGANJ. Trade is generally with Kalakarkar in Partabgarh

E I Rly traverses the district

Fair:—An agricultural and industrial fair is held at DALMAU during Kartik Fair.

#### SAHARANPUR DISTRICT.

The SAHARANPUR district occupies an area of 2,133 sq miles and is inhabited by a Hindustani speaking population of 1,043,920. The average rainfall is about 37."

The district is famous for its luxuriant tropical forest trees and plants on the Siwalik slopes, besides the usual products of the plains which the district shares in common with other places in the Provinces Wheat, rice, gram, sugarcane are grown extensively The district is also famous for the excellent fruits of European varieties that are its special production

Cotton weaving, wood carving, dyeing and printing of cloth, glass blowing, cotton ginning and pressing are the industries

Trade has been greatly developed by railways The exports are wheat and oil seeds in large quantities and the imports are salt, metals, piecegoods, etc.

ROORKI (population 13,944) is noted for its Engineering College

HARDWAR (population 33,287)—It is a favourite resort of Hindu pilgrims and has a very healthy and temperate climate. The famous Kumbha Mela is held here every 12th year

SAHARANPUR TOWN (population 78,655)—Wood carving is the important industry. There is a cigarette and tobacco factory There are also a straw-board factory and a paper factory in operation The city has a big stud-farm where imported horses are trained and acclimatised The Botanical Gardens here are an important centre for the distribution of plants An exhibition is annually held towards the end of February or in the beginning of March

DEOBAND (population 22,126) is an important trade mart and is well known for the Arabic school which attracts scholars of other countries even There is a sugar factory close to the railway station

N W Rly traverses the district with the Hardwar and Dehra Dun Railway branches and there is a light railway from Shahdara to Saharanpur Metalled roads are sufficient

#### SHAHJAHANPUR DISTRICT.

The SHAHJAHANPUR district comprises an area of 1,744 sq miles with a population of 906,131 People mostly speak Urdu Mango, bamboo, babul, sal, shisham and tun are common The average annual rainfall is 37"

The character of the soil being varied, the condition of agriculture is rather complex The chief crops grown are wheat, rice, gram, bajra, poppy and sugarcane

The chief manufacturing industries of the district are sugar and rum which are made at ROSA Mattings of baib grass are exported Cotton cloth is woven for local use

The exports are gram, sugar (famous), oil seeds (from TILHAR), baib grass mattings, chintz, coarse cotton and brass vessels The chief imports are foreign goods, metals and salt. Forest products are floated down the river from Pilibhit

The chief trade centres are TILHAR (population 18,372) and SHAHJAHANPUR but markets are held in many places in the district.

SHAHJAHANPUR Town has a population of 79,316 There is cantonment also Sugar and rum are the chief articles of trade and

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commerce Hosiery factories are doing well There are Govt. Agricultural Farms and an Army Clothing Factory

E I Rly traverses the district and carries almost all its traffic

#### SITAPUR DISTRICT.

The SITAPUR district has an area of 2,253 sq miles and a population of 1,167,139 who speak Hindi and Urdu Average rainfall is 39".

Mangoes, jack-fruit, shisham and tun, besides local fruit trees, are fairly abundant The sandy soil produces bajra and barley, maize, sugarcane and wheat are grown in richer soil

The exports are grain, gram, oilseeds and raw sugar The imports are piecegoods, yarn, metals and salt Opening of railways has lent a great impetus to trade

SITAPUR (population with cantonment 27,820), is the chief trading centre Several good bazars exist along Lucknow Bareilly Metre-gauge Rly

BISWAN is a Railway Station on the O & T Rly and its paper industry and tobacco have a reputation in the market

SIDHAULI, on the metre-gauge line from Bareilly-Lucknow Section, is an important grain market in the district

Fairs —Important fairs are held at NIMKHAR and KHAIRABAD.

#### SULTANPUR DISTRICT.

The SULTANPUR district extends over an area of 1,707 sq miles and is inhabited by a Urdu speaking population of 1,051,284 The average rainfall is about 44"

The crops grown are rice, wheat, jowar, gram, cereals and pulses, barley, peas, masur, which are largely grown, besides sugarcane, fodder and fruits and vegetables

Coarse cotton cloth is woven Metal vessels of BANDHA are famous

The chief item of export is grain and gur. The imports are salt, cotton, piecegoods and metals Trade is carried mainly by rails. RAIPUR, GAURIGANJ, SULTANPUR and BAZAR SUKUL are the important trade centres Cattle are sold in the markets of RANIGANJ and SHUKAL BAZAR

SULTANPUR—Grain and gur are the chief commodities of export. A separate bazar for cattle is held on market days It is connected by railway lines running from Fyzabad to Allahabad

ALIGANJ (3 furlongs south of the Maniari R S) —The market is held every Thursday and is specially famous for cattle

DHAMMOUR (10 miles south of Sultanpur) —The bazar is held on Tuesday and Saturday It is famous for food grains.

GUPTAGANJ BAZAR—A large number of cattle is sold on hat days

MOSAFIRKHAHA TAHSIL —The chief items of import are rice, sugar, salt, wheat, cotton and metals, those of export are rice, wheat, gram, mustard, goats and sheep, betel leaves, eggs and skin

SAHEBGANJ, RANIGANJ and SHUKUL BAZAR are chief centres of trade Due to the new L S Z Ry NIHALGARH is also becoming a trade centre

KADIPUR TAHSIL —The important trade centres are. DHEMA, famous for gur mandi, BIJITHUA RAJAPUR, cattle market every Tuesday, BISHUNGANJ, near Koeripur Ry St on Lucknow Jaunpur line, chief market for sugar, BARUA, famous for Badhi on the bank of the Gomti

BISHESWARGANJ—It is a growing business place It exports mainly flax carpets (pattis), demand for which is daily increasing

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The main line of the E. I. Rly., O. R. Ry. section and a branch from Fyzabad to Allahabad, besides a loop line from Benares, serve well its purposes of transport and communication.

**Fairs:**—Two big fairs are held in the Mosafirkhanna tahsil, one of Datakarimshah at Isauhi and the other of Nandmahar at Nindiyawan, but they are real industrial and cattle fairs.

#### UNAO DISTRICT.

The district of UNAO comprises an area of 1,788 sq miles and a population of 9,59,542 souls whose languages are Urdu and Hindi. The average annual rainfall is about 13.83".

The chief crops grown are rice, barley, wheat, gojari, jowar, bajra, maize, gram, pulses and arhar, sugarcane, groundnut and cotton.

Chief manufacture is making of brass and copper utensils at BHAWANTNAGAR, NAWALGANJ, MORADABAD. Cotton cloth is made for local use and calico printing is also practised. Salt, saltpetre were formerly made but have since declined. Among the new industries in the district may be mentioned, two leather factories at SHEIKHPURA, one weaving establishment at GANGAGHAT, one sugar mill and distillery at SHEIKHPURA, and one bone mill at MAGARWARA.

The exports are grain, sugar, ghee, metals, brass and copper utensils, but the trade is not considerable. Imports consist chiefly of piecegoods, salt, metal, spices and kerosene oil. Both rail and road traffic exist here.

UNAO (population 20,107), is the most important town in the district. It is a municipality and stands on the E. I. Rly. broad and metre gauge lines on the road from Cawnpore to Lucknow.

SAFIPUR TAHSIL (area 260,147 acres and population 219,552) — Besides the usual crops of the district, the tahsil grows potatoes, cotton and sugarcane. Manufactures are insignificant. Newar is made on a large scale. Exports of this tahsil are gram, cotton, gur, ghee, utensils, while the imports consist of cloth, salt, metal, spices and kerosene oil. Important centres of trade in the tahsil are SAFIPUR (population 6,920) and BANGARMAN (population 5,921).

HASANGANJ TAHSIL (area 2,79,248 acres, population 439,409) The chief natural resource is kankar. Chief industries are brassware at NAWALGANJ and MAHARAJGANJ; iron wares at RASULABAD and NAWABGANJ, lac at NEOTANI and AJGAON, scissors and knives at HAIDERABAD and AJGAON. Fruit culture, particularly of graft mangoes and guavas, is getting very popular but export is difficult and therefore less profitable for want of pakka roads, and railways. Guavas and mangoes are sent to Cawnpore.

**Fairs:**—In HASANGANJ Taluk—Durga-Kusehri religious Fair, Nawabganj, Chait, 3 days, wooden doors and bullock carts, lion work, chilhes, dhania, onion, steel trunks and wooden boxes. Raipur Garhi Cattle Fair, from the Jeth Sudi Duadashi, 8 days. Sarai Malik Adam Cattle Fair, held twice (in Baisakh and Kuar) a year. In UNAO TAHSIL—Agricultural and industrial fairs are held at Unao, in Kunwar Cattle fairs are held at Hilgi on Jaith Sudi Devi, at Bhamsai Nonbasta on Aghan sudi Aikadashi, at Sirosi on Shivaratri in the month of Falgun. In PURWA Tahsil—Takiya cattle fair held in December. In SAFIPUR Tahsil—Cattle fairs at Bargadahi on Amavas of Jeth, Susuman 5 miles from Safipur; Ferozepore Kalan, 2 miles from Methi Tekur, Phagunsudi Puranmashi, Gauria Kalan, 8 miles from Bangarmao, from Pus sudi Dwij, 15 days.

The district is well served by railway—a branch of the E. I. Rly., O. & T. Rly. running through the district.

"Sketches of Indian Industries" discusses industrial situations and industrial ideals. Vol. I & II. Re. 1/4 each. Industry Book Dept., Calcutta.

# MARKET PLACES OF THE PUNJAB

**T**HE Punjab is literally a 'land of five rivers.' It is encircled and watered by the Jhelum, the Chenab, the Ravi, the Beas and the Sutlej, and has an area of 100,000 square miles

The Punjab Census figures for 1941 record an increase of 15·8 per cent over the total population of 1931. The total population is now 28,419,000 of which the Muslims are 1,57,88,000, Hindus 73,83,000 and Sikhs 37,82,000. The Muslims now form 56·84 per cent of the total population as compared to 55·4 per cent at the time of the 1931 Census. The Hindus, now form 26·6 per cent of the total population as against 32 per cent recorded in 1931. The Sikhs now form 13·42 per cent of the total population as against 12·9 in 1931. The principal languages are Hindi, Gurmukhi, Pahari, etc.

**Climate.**—The climate of the Province is extreme, very chilly and cold during winter and very hot during the summer months when as a rule the nights are pleasant. But, on the whole, it is healthy and invigorating. In the summer, the temperature rises to 115°F or even 121°F and in the winter snowfalls are often recorded in some parts. Rainfall averages about 15" to 20"

**Soil.**—The soil is sandy loam but is aided by a network of irrigation canals for raising wheat and cotton. Manuring is practised near villages, and sugarcane, maize, wheat, tobacco and vegetables are as a rule always manured. Millet and gram are neglected. Dung of animals forms the chief manure, the animals being often folded together for the sake of their manures. Of the total area in the Punjab 28,170,000 acres were under cultivation during the year 1940-41 of which 16,898,000 acres were irrigated. Area of land lying fallow is 3,068,000 acres, forests 1,975,000 acres, culturable waste 13,986,000 acres.

**Crops.**—The Punjab is essentially an agricultural province and wheat is its most important crop. In fact, the Punjab is the greatest wheat bearing tract in India, being about one-third of its total cultivated area under this crop. Tobacco, mustard, sugarcane, etc., are largely grown. Cotton of improved types are also cultivated on a very large scale (3,347,000 acres). Among other principal crops grown in the Punjab mention may be made of gram and barley, which are grown for sale. Millets of different varieties are also cultivated. Rice is grown in the Kangra Valley. Oilseeds occupy a large acreage of the land. The chief crops during the last five years were —

	1936-37	1937-38	1938-39 (in 1,000 acres)	1939-40	1940-41
Wheat	9,300	9,945	9,526	9,566	9,884
Cotton	3,691	3,986	3,652	3,347	3,304
Rape and mustard	982	740	650	1,075	1,335
Sugar cane	554	510	352	414	549
Sesamum	100	95	92	80	74
Linseed	31	30	30	32	33
Tobacco	78	78	78	78	61

Condiments (61,000 acres), fruits and vegetables (328,000 acres), sunn (42,000 acres), poppy and tobacco (78,000 acres), are raised and

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tea (9,505 acres) is grown in the Kangra Valley. Area under indigo is small, potatoes, mangoes, fruits and other vegetables and drugs are grown on the hill slopes and valleys for purposes of sale and export.

Following crops were cultivated during the year 1940-41: Jawar 879,000 acres, bajra 3,863,000 acres, barley 799,000 acres, ragi 288,000 acres, maize 31,000 acres, groundnut 37,000 acres.

Total area under crops in the Punjab is about 30 million acres. The districts where the crops are raised on a big scale are

Rice—Gujranwala, Sheikhupura, Kangra, Wheat—Ferozepur, Multan, Lyallpur, Shahpur, Attock, Gujrat, Montgomery, Sialkot, Barley—Gurgaon, Hissar, Jowar—Rohtak, Deia Ghazi Khan, Hissar, Bajra—Hissar, Rohtak, Gurgaon, Maize—Kangra, Hoshiarpur, Gram—Hissar, Ferozepur, Rohtak, Mianwali, Karnal, Linseed—Kangra, Sesamum—Gurdaspur, Kangra, Multan, Rape and Mustard—Montgomery, Multan, Lahore, Sheikhupura, Condiments and spices—Karnal, Sugarcane—Lyallpur, Gurdaspur, Cotton—Lyallpur, Montgomery, Multan, Tea—Kangra, Tobacco—Jullunder, Jhang, Fodder crops—Ferozepur, Montgomery, Hissar, Fruits and Vegetables—Hoshiarpur, Amritsar, Lahore.

**Irrigation:**—Total area irrigated in the Punjab during 1940-41 was 16,898,000 acres of which area irrigated by Government canal is 11,565,000 acres, by private canals 475,000 acres, by tanks 47,000 acres by wells 4,682,000 acres, by other sources 130,000 acres.

**Cattle:**—Montgomery, Harina, Malwa breed of cattle, are noted Hissar, Delhi, Rohtak, Gurgaon are the centres of cattle breeding. Buffaloes are valuable assets in the Province. Sheep are abundant, camels are found. The principal cattle fairs are those of Amritsar Jahazagarh (Rohtak), Kulu, Shah, (Sialkot) and Hissar. Large profits are made from dairy trade.

**Timber:**—Sal timber is found in Ambala and Sirmoor State. The forests are all conserved.

**Minerals:**—The Punjab possesses extensive mineral resources, but sufficient enterprise is rather wanting in this direction. Coal is now worked in the district of Jhelum, Mianwali and Shahpur. The output of coal during 1939 in the province was 194,000 tons. Petroleum is raised in Attock, Khaur and Rawalpindi. The annual production is about 6 million gallons. Salt mixed with gypsum, is obtained from the Northern Salt Range in large quantities and worked at Khewra and Nurpur. It is a Government monopoly and the annual output averages about 450,000 tons. Rock salt also occurs in the Salt Range. Small quantities of iron are found in Kangra, copper is met with in Kulu, and slate is found in the Mandi State. Saltpetre, carbonate of soda, sal ammoniac are found plentifully in Shahdara, Mianwali, and other places. About thirty-five per cent of the saltpetre from British India is produced in the Punjab. Gold and other precious stones are available in small quantities.

**Cottage Industries.**—Cotton spinning and weaving is the domestic industry. More than three lakhs of weavers are engaged in this profession. The important weaving centres are Delhi, Ludhiana, Multan, etc. Rugs and carpets of cotton are made at Lahore, Ambala, Multan and Amritsar; cotton printing by wooden blocks is done at Kot Kamala, Sultanpur and Lahore. The handloom weaving industry is by far the most important cottage industry in the province and shows definite signs of recovery. The Ludhiana weavers of silk and artificial silk have adapted themselves to the market conditions by undertaking the production of woollen goods from August to October and are thus able to keep themselves busy throughout the year. The cheap mosquito net has furnished an undoubted incentive to handloom.

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weavers of the province Ginning of cotton is done on an organised scale all over the cotton producing areas Blankets, felts, and rugs from sheep's wool are made at Dera Ghazi Khan, Bhera and Hissar. Hissar district is, by the way, one of the largest markets in India of the trade in raw wool And one of the biggest markets in India of indigenous wool is at Fazilka in the Punjab, the other being Beawar in Rajputana A very considerable quantity of good quality wool is imported into the Punjab via Afghanistan, the chief collecting centres being Shikarpur, Amritsar, and Multan Wool from Tibet and Kashmir, and pashmina which comes through Kashmir, are worked and embroidered at AMRITSAR Sericulture is another cottage industry of some importance in the sub-montane district of the Punjab bordering on Jammu and Kashmir But the amount of raw silk produced is only a fraction of the total output of British India Silk comes mainly from China and is woven at Amritsar, Lahore, Patiala, Batala, Montgomery and Bahawalpur Iron smelting is carried on in Kangra on a small scale and the cutlery of Bhera and Gujranwala is famous Glazed pottery is made at Multan, and glass bangles, etc are manufactured at Kurnool, Kangra, Hoshiarpur and Lahore Wood carving is done at Lahore Ivory carving is done at Amritsar, Patiala, and other places There are several breweries A certain amount of crude borax enters the Punjab from Lodakh and is refined at Lahore and Sultanpur

**Major Industries.**—Chief among the major industries may be mentioned textile industry, hosiery knitting, woollen goods manufacture, match making, sporting goods manufacture, carpet weaving, etc. Glass, chemicals, soaps, resins, cement, etc are developing rapidly. There are 8 cotton mills equipped with 111,980 spindles and 2,581 looms During the year 1941-42 21 million lbs of yarn were spun and 69 million lbs fabrics woven

The most notable advance of recent years is that the hosiery industry at LUDHIANA has been able to increase its output due to the tariff duty on imported hosiery goods Ludhiana has become a great hosiery centre and is able to offer employment to about 6,000 workers. The hosiery factories at LAHORE and AMRITSAR also do quite well

The sugar industry in the province is not much developed, there being only 3 sugar mills producing about 1,1700 tons during 1937-38 and 7,500 tons in 1938-39 Two match factories in the province did not fare well due to competition from foreign companies in India

The manufacture of cutlery and surgical instruments, in view of the development that are taking place at Sialkot, Wazirabad and Nizamabad, affords signs of fair promise The sports goods industry which is mainly centred at Sialkot, had a good year Factories manufacturing electric fans increased their production and improved the quality of their goods A starch factory has recently been started at ABDULLAPUR

**Factories.**—In 1938 there were 887 factories in operation, employing 72,268 hands Of the factories 400 are seasonal There were 50 hosiery mills, 5 silk mills, 6 woollen mills, 38 rice mills, and aerated water factories, 2 match factories, 1 paper pulp mill, 16 oil mills, 42 engineering works, 2 petroleum refineries and 371 cotton ginning presses

**Trade.**—Export of wheat is the main source of wealth of the Province Other principal exports are Indian piecegoods, cotton twist and yarn, drugs, turmeric and other dyes and tans, oil cake, oil-seeds, mineral and vegetable oils, fresh fruit and vegetables, bran and crushed fodder, gram, pulse, wheat, flour, hides and skins and leather, saltpetre, timber, wool (raw and manufactured), unrefined sugar,

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tobacco, salt, etc The imports are cotton piecegoods, twist, yarn, dyes, tans, gunny bags, cloth, liquors and even wheat and grains in times of scarcity, besides chemicals, drugs, medicines, hemp and other fibres, metals and machinery, rice, coconut oil, coal and coke, copra, mineral oils, paper, pasteboard, ghee, dried fruits and nuts, spices, tea, manufactured tobacco, provisions, refined sugar, etc Export trade is mainly with Karachi in wheat, raw cotton, oilseeds, hides and raw wool The imports through Karachi are piecegoods (both woollen and cotton), sugar, metals, railway plants, silk, tea, tobacco, etc Trade with Kashmir is chiefly in rice, grain, ghee, timber, oil seeds, wool, silk, hides and skins and fruits from Kashmir The exports to that place are piecegoods, wheat, tea, metals, sugar, salt, tobacco, charas, borax and ponies The exports to Kabul through the Passes are cotton, metals, leather, piecegoods and sugar, the imports from Kabul are fruits, ghee, raw wool, etc, etc

The principal commercial centres in the Province are LAHORE, JULLUNDER, LUDHIANA, MULTAN, SIALKOT and AMRITSAR Commercial activity in the Punjab appears to have noticeably developed within recent years The Punjab has considerable trans-frontier trade It plies a good trade with Northern and Eastern Afghanistan and Kashmir and through them with Central Asia and Turkistan

**Transport and Communication**.—Almost all the towns are now connected with the interior by a system of motor buses, which generally carry passengers, but motor lorries are also used now-a-days for carrying goods in some cities and stations on the railway line.

The Punjab, which is strictly speaking, an entirely inland country having its five rivers practically unnavigable during the greater part of the year, has got to have all its trade movements by railway and road And it is well provided with railways and roads Karachi in Sind, the natural harbour of the Punjab, is directly connected with the Province by the N W Rly The Southern Punjab Railway and other branches of the N W Rly traverse the Province and link almost all the important towns for easy means of communication and transport. The B B & C I Rly crosses the south-east border of the Province There are about 7,000 miles of railways open in the Province, besides about 4,000 miles of metalled roads including the Grand Trunk Road leading to Calcutta There are about 25,000 miles of unmetalled road and about 200 miles of navigable canals

#### AMBALA DISTRICT.

The AMBALA district comprises an area of 2,627 sq miles and a population of 742,902 whose languages are Hindustani and Punjabi. Rainfall averages about 28" The autumn harvest is more important than the spring one The chief important crops are wheat and gram, other crops are barley, maize, rice, pulses, millet, cotton, etc

Chief crops are rice, wheat, jowar, maize, gram, other grains and pulses, linseed, sesamum, rape and mustard, other oil seeds, sugarcane, cotton, fodder crops, and fruits and vegetables

The district produces excellent cotton carpets There are ginning and pressing factories besides big flour mills and a factory of scientific apparatus.

AMBALA CITY (population 35,193) is a big grain and castor market and imports gram and cotton from Phulkian States and Ludhiana. It imports cotton cloth and iron from the south and also woollen and silk goods The chief exports are carpets, ginger, turmeric and potatoes There is a big glass factory here which is doing well. The aluminium factory however has lately stopped working

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RUPER is another mart for commerce with considerable trade in grain, sugar and indigo. Salt and iron are exchanged as well as ginger, turmeric, potatoes and country-made cloth.

JAGADHRI (population 13,638) has a good trade in minerals and metals and is also a centre of borax trade. Copper and iron are imported. A big paper mill has lately been started here. It is capable of producing paper to the value of 50 lakhs of rupees. It is 31 miles from Ambala Cantonment.

KASAUULI.—It is a sanatorium and a hill station 8 miles from Dharampur Rly. Station on the Kalka-Simla Railway frequented both by Europeans and Indians.

SOHANA.—Cooking utensils and glass bangles are made here.

#### AMRITSAR DISTRICT.

The AMRITSAR district has an area of 1,574 sq miles and a population of 1,413,876. Languages spoken are Gurmukhi, Punjabi and Urdu. The average rainfall is about 26".

Chief crops are wheat, rice, bajra, maize, gram, rape and mustard, sugarcane, cotton, fodder crops and fruits and vegetables.

Raw wool of fine quality is available here in large quantities for internal trade and export.

AMRITSAR (population 389,581) —It is the most flourishing city in the Punjab and is famous for its carpets and shawls of pasham (fine wool of Tibetan goat) which have a ready sale all over the world. Cotton spinning and ginning workshops are the other industries. The articles of import are grains, pulses, sugar, oil, salt, tobacco, raw cotton, piecegoods, threads, shawls, wool, wood, silk, coarse cloth, blankets, metals, hardware, glass and dye stuffs, many of these imports however are re-exported. The exports are wheat, shawls, carpets, cotton goods, brass vessels, jewellery, etc. Dry salted goat skins technically known as Amritsars are exported from this place.

Among the new industries of the town may be mentioned the manufacture of textiles, acids and chemicals, aluminium wares, soap, hosiery, oil, leather, glass, iron foundries, etc.

It stands on the main line of the N W Rly and is 33 miles from Lahore, 400 miles from Agra and 1,143 miles from Calcutta. Besides Dharamsalas, there are decent hotels in the town and in the civil lines. Conveyances are available in the town which is electrified.

Fairs:—Two large fairs are held at AMRITSAR—one, the Baisakh, during April, and the other, the Diwah, during November. There is also a large trade in these fairs with merchants of distant lands like Bokhara, Kabul and Kashmir, mainly centering round the carpet industry. An important cattle fair is held along with an annual horse fair.

#### ATTOCK DISTRICT.

The ATTOCK district (area 4,178 sq miles, population 533,960) has an average rainfall of about 17".

The chief produces of the district are wheat, bajra, gram, other grains and pulses. Fodder crops, cotton and sugarcane are also grown. The district is noted for horse breeding.

Countrymade cloth, iron vessels, locks, stirrups, saddles, shoes and soap are manufactured in the villages. The only substantial industry is the manufacture of snuff which is carried at HAZRO. This apart, the district has very little trade.

CAMBELPUR, Sadar Station, is a small cantonment and municipality 528 miles from Delhi.

WAH.—It is a growing centre of trade with a big cement works where cement, cement tiles and allied products are made.

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**KHAUR**—Mineral oil (petroleum) is extracted at this place by the Attock Oil Company and finds wide market in the Punjab and elsewhere. It is not situated on Railway. It is however connected by a metalled road with Rawalpindi.

**HAZRO**—An important town in the district. Much tobacco is grown in the neighbourhood and this is converted into snuff here. The industry is a flourishing one.

**TALLAGANG** is a small town in the centre of the tract in which the locally celebrated Dhani cattle are bred. It is not very accessible and is best reached from Rawalpindi via Chakwal.

**Fairs**:—There is only one important fair in the district. This is the Tallagang cattle fair held in March each year.

#### DERA GHAZI-KHAN DISTRICT.

The **DERA GHAZI KHAN** district (area 5,428 sq miles, population 491,044, languages, Multani or Jatki and Baluchi) has an annual rainfall averaging 22"

Chief crops are wheat, rice, gram, grains and pulses, cotton, rape and mustard, etc.

The industries of the district consist of weaving of woollen fabrics, blankets, carpets and saddle bags, silk is woven at **DERA GHAZI KHAN** and ivory bangles are made. There is also a cotton ginning and spinning mill in the district. Blankets, felt, rugs from sheep's wool are made at **DERA GHAZI KHAN**, which is the Sadar Station of the district. Toys and wooden furniture are made in **JAMPUR**, fine woollen carpets in **ROJHAN**, and leather shoes in **TAUNSA**.

The exports to Karachi down the Indus are wheat, millet, cotton, hides and mustard seed. Medicinal herbs, dates, vegetables are exported to Loralai Cantonment. Raw wool also figures amongst exports. Wheat and millet are imported from higher up the Indus. Other imports are salt, pulses, sugar, leather, iron and piecegoods from Multan.

A brisk trade is carried on in dried fruits, herbs and minerals which are available at cheap prices, suitable specially for Calcutta and Bombay traders.

Fresh fruits are imported from Quetta and other hill stations on camels by Pathan caravans in water and there is a mandi of dried fruits such as almond, pistachio, chalthoza, raisins, green and black. The surplus fruit is transported to Multan on the Indus Bridge on camels.

The chief trade centres are **DERA GHAZI KHAN** (population 23,468) and **MITHARKOT**.

The India-Khorasan trade is carried on mainly through Dera Ghazi Khan. The district has no railways.

There is a lorry service from Dera Ghazi Khan to Pishin and Quetta, Baluchistan via Barkhan and Loralai Cantonment. All the route by land is inhabited by Mohamedan hilly tribes, e.g., Legari, Khetran, Khosa Baluchies, mostly illiterate who maintain themselves on their hilly productions. Panir, majeth saji and several minerals are found near YARU on estate of Khosa Sardar. The hilly streams during rains cause damage to the fields near Makwal Kalan.

**Fairs**:—Cattle fairs are held at Tanusa, Jan 1 day, Rojhen, Jan. 1 day, Fazilpur, March, 1 day. A fair is held at Lalgarh in Jan. 1 day.

#### FEROZEPUR DISTRICT.

The **FEROZEPUR** district covers an area of 4,064 square miles, and has a population of 1,156,732. Languages are Punjabi and Hindustani. The average rainfall is about 15 inches.

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The main crops grown are wheat and gram, barley, millets, rice, maize and moth are also cultivated. Raw wool of the place is considered good.

Industries comprise of weaving and carpentry, which supply the need of agricultural occupation.

Typical plants of the uplands are —Shisham, Kikar, Lemons, Mangoes, Bui-Khip, Tuma, Latia, Chuhri, Sarotia, Bel and Jawann.

The chief exports are agricultural produce and wool. A large quantity of wheat, barley, grams are exported from the different markets. The principal imports are salt, coal and gunny bags, kerosene oil, cotton piecegoods, and cotton seeds.

The industries are purely local, coarse cloth and blankets are woven, carts of FERROZEPOR are famous, mats and lacquered-ware are also made.

FERROZEPOR (population 64,634), the Sadar station, is a seat of thriving commerce. It is a large and prosperous grain market.

MOGA (population 17,581), 34 miles from Ferozepore, is one of the leading markets for grain in the district. It exports principally wheat, gram, barley, ghee and maize, while its main items of import are sugar, piecegoods, cotton seed and arms and ammunition.

ABOHAR (population 14,035) only 45 miles from Bhatinda is a big market for wool, gram, tobacco, saji, oil seeds and vegetables.

FAZILKA (population 18,463) the leading wool market in India, exporting a very large quantity of Bikaner wool to Liverpool via Karachi. Wheat, ghee, grain, tobacco, chillies and hemp are also exported from here. Sugar, piecegoods and iron are its chief imports.

MUKTSAR (population 14,839) is a sacred place of Sikhs where at the annual fair on Makar Sankranti Day about 50,000 people congregate from all parts of the Punjab. It is one of the important markets for grain specially wheat and gram. It exports a large quantity of ghee, vegetable oil and gur.

GIDDERBAHA (population 3,626), only about 15 miles from Bhatinda, is an important market for wool, grain, tobacco, saji and oil seeds.

Other centres of trade are BIRA and NATHANA.

**Fairs** —Cattle Fairs are held at ABOHAR, Abohar Municipal and Cattle Fair, Feb, 7 days, ZIRA, Zira Municipal and Cattle Fair, Oct, 11 days, MUKTSAR, Horse and Cattle Fair, Jany, 9 days, District Board Cattle Fairs —Dharamkot, May, 7 days, MOGA, June—July, BADHNI, Aug, 8 days, ABOHAR, Aug, 8 days, MOGA, August, 10 days, TALWANDI BHAI, Sept, 8 days, MUKTSAR Sept, 6 days, GIDDERBAHA, Sept, 7 days, TALWANDI BHAI, May, 7 days and Oct, 6 days, DHARAMKOT, Nov, 8 days, ABOHAR, Sept—Oct, 9 days, Dec, 7 days, MALOUT, Jan, 8 days, MOGA, Feb, 8 days, GIDDERBAHA, Feb, 7 days, BAGHA Purnana, March, 7 days, ZIRA, March, 9 days; FERROZEPUR, Nov, 8 days.

#### GUJRANWALA DISTRICT.

The GUJRANWALA district covers an area of 2,907 sq miles and has a population of 736,138. Languages are Hindustani and Punjabi. The average annual rainfall varies from 23" to 27".

Chief crops are rice, wheat, bajra, gram, rape and mustard, sugarcane, cotton, fodder crops.

Gypsum is found at NURPUR.

Silk and cotton cloth are woven and there are several steam mills and factories. Oil milling is done, SANGLA, HAFIZABAD and GUJRANWALA are the centres of mill industry. A large and growing

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trade is being carried on in wheat, grains, cotton, oil, oilseeds, brass vessels, and ghee

Principal items of export are iron safes, brass vessels, gram, linseed, aluminiumware and wheat. The imports consist chiefly of piece-goods, paper, cloth, country soap, sugar, wines and general merchandise.

**HAFIZABAD** (population 14,431) —It is an important gram, cotton, and rice market 30 miles from Gujranwala (by road) and 100 miles from Lahore. It exports large quantities of rice, gram, wheat, cotton, sugar, etc and imports cotton and woollen goods, sugar, spices, coal and general merchandise.

**WAZIRABAD** (population 20,707) a centre of considerable trade in the district, lies at a distance of 20 miles from Gujranwala. The chief industry of Wazirabad is cutlery and Malacca sticks. The trade of the town is timber from Kashmir which arrives via the Chenab.

#### GUJRAT DISTRICT.

The GUJRAT district (area 1,973 sq. miles, population 922,427, language Punjabi) is hilly to a certain extent. Rainfall averages 25"

Chief crops are wheat, bajra, grains and pulses, rape and mustard, cotton and fodder crops. The average holding is very small and there is great need of intensive cultivation.

Furniture of GUJRAT is of good quality. Damascening of iron and brass for ornamental work, cotton cloth weaving and hemp sack making form the industries of the district. Cloth weaving, inferior wool and pasham are woven at JALALPUR. Soap making, boot and shoe making are also done.

The district exports, in considerable quantities, wheat, millet, oil seeds, oil, ghee, wool, cotton and hides by rail generally. The district imports piecegoods, iron, salt, sugar, rice, wool, brass vessels, spices, dyes, etc.

GUJRAT is the Sadar Station and the only place of commercial importance.

**MANDI BABEDDIN** (population 26,511) is also an important trade centre, and is a distributing centre of raw iron, foreign goods, etc to the villages. Trade in dried fruit from Kashmir is also pursued.

Other trade centres are JALALPUR JATTAN (12,507) and KUN-JAH (population 7,152).

**Fairs.**—Chief fairs are —Gujrat Horse Show and Cattle fair, Phalia Tahsil Cattle fair at Chak No 40; One day cattle show at Chak Manju Ajwala, Kalian Husspur, Jaurakarua, Pindi Badaddin and Sherewala.

#### GURDASPUR DISTRICT.

The GURDASPUR district (area 1,822 sq miles, population 970,898, language, Punjabi) is intercepted by numerous hill streams, besides the Ravi and the Beas. The annual rainfall averages about 80"

The soil is rich and fertile specially, the Doab and the river beds.

Chief crops are wheat, rice, maize, gram, other grains and pulses, sugarcane, cotton and fodder crops.

**PATHANKOTE** tahsil is abundantly wooded and contains many mango groves and bamboos, hand weaving of wool is also practised. Wool used generally comes from Tibet. Coarse blankets and soap are made at BATALA. Harness and leather goods are made at DINA-NAGAR. Iron, sugar and ivory bangles are also made in the district. Sugar refining is widely practised. There is distillery at SUJANPUR.

The chief exports are grains, sugar, oil seeds, cotton and woollen stuff. The main imports are rum (from Sujanpur), gram from Ludhi-

Up-to-date methods of production, preservation and marketing of fruits are given in ALL ABOUT FRUITS. Rs 2/8. Industry Book Dept., Cal.

ana and Ferozepur), ghee (from Kashmir), cotton (from Ruper), iron and piecegoods (from Delhi and Amritsar)

GURDASPUR (population 12,226) is an important market for gram, wheat, gur, sugarcane, raw sugar, vegetables, potatoes, oil, rice and pulses Lungis, susi, belts, and silk cloth are made here It is the chief trade centre in the district

DALHOUSIE, a hill station and a sanatorium in Pathankote, is 7,687 feet above sea level

BAHLOH is another hill station in the district

Traffic is mainly carried by rail, but road traffic to Sialkot and Jammu also exists

Fairs:—District Board Cattle fairs are Shahgarh Tehsil, Shakar-garh, June, Gurdaspur, September, Batela, October.

### GURGAON DISTRICT.

The GURGAON district (area 2,223 sq miles; population 851,458; languages, Urdu, Hindi and Mewati) is situated on the outlying hills of the tableland of Rajputana The rainfall averages 22.06".

The chief crops are barley, wheat, millets, bajra, gram, pulses, cotton, sugarcane, etc Hariana cattle are breed in the district

The industries comprise weaving of coarse cotton cloth. Muslin is woven at REWARI but brass manufacture of REWARI is the chief industry Shoes are made at JHARSA There are several ginning and pressing factories

The chief exports are sugar, grains, piecegoods, hardware, besides cereals and pulse in which the district has a large trade. The imports are salt (from Sambhar Lake), iron, etc

GURGAON, the Sadar Station, is 20 miles from Delhi on the B B. & C I Ry Its principal items of trade are ghee, gram and cotton

REWARI (population 30,673), the chief centre of trade in the district, is a station on the B B & C-I Rly It has a large export trade in wheat, gram, mung, pulse, sugarcane, barley, metalware and brassware Merchants deal with Northern India and Rajputana

BALABAGH, a station on G I P Rly, 22 miles from Delhi and 930 miles from Bombay, possesses a mandi for grain, bajra, gram, barley and cotton

PALWAL (population 13,606) also on the G I P Rly. (Agra and Delhi Br), is a depot for the cotton of the surrounding country

HODAL exports ghee, cotton, gram and wheat

Other trade centres are NUH, FIROZEPUR-JHIRKA, HATTIN, NAGINA, PUNOHANA, HANSANPUR and FURRUKHANAGAR (for Sultanpuri salt) The traffic is mainly rail-borne

### HISSAR DISTRICT.

The HISSAR district (area over 5,000 sq miles, population 899,479, languages, Urdu, Punjabi and Bagri) is situated on the border of Rajputana The rainfall is about 16" on the average Cattle of Hissar are reliable and the wool of this place takes the foremost place among Indian wool

The crops raised are gram, barley, wheat, spiked millet, great millet, pulses, sugarcane and cotton, where the land is irrigated, maize, rice etc are also grown to a small extent. Coarse cotton cloth is woven There are ginning and pressing factories Hansi is the industrial centre besides BHIWANI and NARNAUND Brass and metal works are situated at BHIWANI, which is noted for its carved doors and carpentry work The centres of trade are BHIWANI, HANSI, HISSAR, BUDHLADA and SIRSA

Up-to-date methods of production, preservation and marketing of fruits are given in ALL ABOUT FRUITS. Rs 2/8. Industry Book Dept, Cal.

Piecegoods and hardware are the imports. The exports include wheat, flour, ghee, gram, barley and cattle. Trade is mainly rail-borne with Rajputana.

**HISSAR** (population 25,343) is a junction on the Bhatinda Rewari Section of the B B & C I Rly and the terminal of the N. W Rly (Ludhiana-Dhuri-Jakhal Section and terminal of the Bikaner State Rly). It is the Sadar Station and is famous for good cattle. Buffaloes are exported from here to as far as Bombay. It has a large trade in cotton and red-pepper. There are cotton ginning and pressing factories. The place is an important centre for export of grain, fruit, raw sugar, and vegetables to Rajputana. Ghee from the surrounding villages is collected here for export to Delhi and other places in the Province.

**SIRSA** (population 16,855) —This place is situated on the B B & C I Rly near the Ghaggar. The surrounding country in case of sufficient rain produces valuable agricultural crops of grains and seeds, which are exported in large quantities. Ghee is available and is largely exported. Other products of the place include gram, maize, wheat, linseed, mustard seed, cotton, oil cake, sugar, etc. Goods are transported by rail and motor to Delhi generally.

**BHIWANI** (population 35,866), 38 miles from Hissar, is famous for its half yearly cattle show fair which continues for 15 days. It exports wheat, gram, barley, and gur, by rail and imports cloth, sugar, spices and general merchandise by motor.

Other centres of trade are **HANSI** (population 20,421), **FATEHABAD** (population 2,497), **TOHANA** (population 7,519), and **DABWALI** (population 1,619).

**Fairs.**—Important fairs are held at Hissar, cattle fair, Feb-March and September, Siwal, Sivaratri, Hansi, cattle fair, 11 to 18 March and Sept 25 to Oct 4, Kilmara, Sivaratri fair, Kagdana, Ramdeo fair, Jan 30, Sirsa, cattle fair, Feb 14 to 22 and Aug 20 to 29, Kurianagawali, Ramdeo fair, Jan 29, Fatehabad, Cattle fair, Aug 12 to 18 and Feb 18 to 24, Dhamana, Mata fair, 8 days in March, Bhiwani, cattle fair, March 19 to 26 and Oct 18 to 27, Bhodia Bishnoiyan, Ramdeo fair, Jan 30, Juglan, Sivaratri, Hissar, Dusehra, Oct 22, etc.

### HOSHIARPUR DISTRICT.

The HOSHIARPUR district occupies an area of 2,180 sq miles and has a population of 1,032,187. Languages are Urdu and Punjabi.

Chief crops are wheat, maize, gram, rice, other grains and pulses, sugarcane, cotton, fodder crops, fruits and vegetables. Mangoes grow abundantly and are largely exported to Lahore, Amritsar and other places.

Weaving of cotton fabrics, coloured turbans and cloths, is the principal industry in the district. Weaving of artificial silk fabrics of different designs has lately developed to a considerable extent throughout the district and more particularly in the suburbs of Hoshiarpur. Ivory or bone and copper inlaid work is done at HOSHIARPUR, lacquered wooden work and silver work, glass bangles, shoes of Sambhar (deer), cups and glass of coloured glass are made at DASUYA. Brass vessels are made at BAHADURPUR and BASI GHULAM HUSSAIN. Fruit preservation is carried on at HOSHIARPUR and GARHDIWALA. The preserves of oranges, carrot, karaila, bamboo and mangoes, etc are prepared at GARHDIWALA.

The exports are rice, gram, barley, sugar, hemp, safflower, fibres, tobacco, indigo, cotton, lac and wheat. Sugar is refined in large towns and exported to Amritsar. The imports are cotton cloth from Delhi.

**ALL ABOUT FRUITS**—A most handy guide to fruit culture and preservation. Price Rs. 2/8. Industry Book Dept., Shambazar, Calcutta.

and Amritsar, millet and other crops come from the south of the Sutlej and cattle come from Amritsar

**HOSHIARPUR** (population 26,730), the headquarters of the district, is famous for the production of articles of wood inlaid with ivory, for brasswares and glass bangles. The principal trade of the town consists of exports of grain, sugar, rice, and tobacco

**Fairs**:—Sirsa, 10 days, Sawan shudi 6th to Sawan sudhi 15th; Fatehabad, 7 days, Bhadon badi 1st to Bhadon badi 7th, Hissar, 15 days, Bhadon shudi 10th to Asauj badi 9th, Hansi, 10 days, Asauj badi 10th to Asauj shudi 4th; Bhiwani, 10 days, Asauj shudi 5th to Asauj shudi 14th, Sirsa, 8 days, Phagon badi 12th to Phagon shudi 4th; Fatehabad, 7 days, Phagon badi 5th to Phagon badi 11th; Hissar, 15 days, Phagon shudi 5th to Chet badi 4th, Hansi, 8 days, Chet badi 5th to Chet badi 12th, Bhiwani, 8 days, Chet badi 13th to Chet shudi 5th

### JHANG DISTRICT.

The JHANG district (area 3,387 sq miles, population 821,631, language, Punjabi) is very dry and the rainfall averages about 9".

Chief crops are wheat, cotton, grains and seeds, pulses, etc

Wood carving and carpentry of CHINIOT (population 34,437) are famous. Sandals and locks of good quality are made at JHANG-MAGHIANA. Cotton weaving is practised. Preparation of cotton for the market is an industry and the district has several flour mills and iron foundries

The chief article exported are wheat, cotton, wool, ghee, oil seeds, hide and other agricultural products. The imports are iron, timber and piecegoods. There are not sufficient metalled roads in the district and the traffic is carried mainly by rail (N W Rly) and to some extent by lorries

JHANG-MAGHIANA (population 50,051) is the district headquarters and has a considerable trade in gram and country cloth. Leather, soap, locks and other brass work are manufactured here

### JHELM DISTRICT.

The Salt Range of the Punjab passes through the JHELM district (area 3,900 sq miles, population, 541,076, language, Punjabi). The greater part of it consists of sandstone. The average rainfall is 21"

Chief crops are wheat, bajra, gram, grains and pulses, rape and mustard, fodder crops. Output of coal in 1939 was 68,998 tons

Boat building is carried on at JHELM. Brass vessels are made on a small scale at PIND DADAN KHAN. Silk lungis are also prepared, though not in great quantity as before. Ivory combs are made at JHELM, and desi soap at CHAKWAL. Woollen cloth is made at JABAIRPUR in Chakwal Tahsil and exported therefrom. Water mills are used for grinding

CHAKWAL (population 15,593) is a trade centre whence silk cloths and Dhudial blankets are exported.

JHELM (population 23,499) is an important timber depot, being the headquarter of the forest officer of Jhelum. The article of trade are stone, ivory combs and khes. Dhudial blankets and legs of charpais are made and exported from here

PIND DADAN KHAN is now no longer a trade centre owing to salination which has ruined the town. Desi soap is the only item of manufacture now a days

KHEWRA has recently expanded a good deal. Common salt from the Salt Mines, Khewra, is the most important item of export. Seth Ram Awtar Brij Lal and Seth Ram Rachhpal Brijhi Chand are the

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prominent salt traders of the place Recently Dalmia Cement Ltd. have installed a cement factory at DANDOT near Khewra with a capacity of manufacturing 250 tons of cement in a day, and Dalmia cement is now the second important item of export. Other important exports are coal from Dandot Collieries, lime stone, gypsum and agricultural products Imports chiefly consist of piecegoods, iron, sugar, cotton and paper

The Alkali & Chemical Corporation of India Ltd have under construction a huge factory at KHEWRA for the preparation of soda ash, which will shortly be another very important item of export

There are roads and traffic is carried on by lorries.

**Fairs:**—(i) A big Mohammadan fair is held at Choa Saidan Shah in Pind Dadan Khan Tahsil on the last Thursday and Friday of Chet falling in the second week of April every year, and people from all parts of the district and adjoining districts come to attend the fair and pay homage to the tomb of Bawa Saidan Shah (ii) A very largely attended Hindu fair is held every year at Katas Raj in Pind Dadan Khan Tahsil on the first day of Baisakh corresponding to about the 13th April Katas Raj is a place of great religious and historical importance to the Hindus and is one of the biggest places of Hindu pilgrimage in India It is about 12 miles from Railway Station Khewra and a couple of miles beyond Choa Saidan Shah (iii) Choa fair is held in the second week of April to pay homage to the tomb of Bawa Saidan Shah, a Muslim priest (iv) Patas fair takes place on the first of Baikash where pilgrims from all parts of India visit in large number (v) Chakwal cattle fair is held in the first week of April where agricultural and industrial exhibitions are held (vi) Padshahan cattle fair is held in the middle of June

The main line of the N W Rly, between Peshawar and Delhi passes through Jhelum town which is 185 miles from Peshawar, 103 miles from Lahore and 77 miles from Rawalpindi

### JULLUNDUR DISTRICT.

The JULLUNDUR district (area 1,131 sq miles, population 943,721, language, Punjabi) forms the Southern part of the Beas Jullundur Doab

Chief crops are wheat, maize, gram, other grains and pulses, cotton, and fodder crops

A good deal of cotton weaving is carried on in the district. Silk is woven at JULLUNDUR TOWN Hookah tubes and iron jars are manufactured at NAKODAR The district is reputed for carpentry work and brass vessels There are flour mills, iron and brass foundries and gins and presses Trade is mainly in agricultural produce

Grains are imported from Ludhiana, Ferozepur and the States for export to the hills Sugar and molasses are manufactured and exported The district sends out considerable quantities of silk, gold lace, carpentry work, buckets, mangoes, wheat, gram, etc, etc all over the Punjab, the U P, and Central India.

JULLUNDUR TOWN, (population 89,030) a Station on the N W. Rly, is the district headquarters The town, manufactures gold lace (gota), steel trunks and buckets There are flour mills and iron and brass foundries Silk is woven and cabinetware is turned out. It is an important military station.

Other centres of trade are NAWASHAHR, PHILLOUR and NAKODAR

Traffic is rail borne and the district is exceptionally well provided with roads

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**KANGRA DISTRICT.**

The KANGRA district (area 9,976 sq miles, population, 899,062, languages Gadi, Punjabi, Urdu, Lahauli, and Bhoti) has an average rainfall of over 70"

Iron smelting is carried on in KANGRA on a small scale as iron ores are found in the district Copper is also met with at KULU

Chief crops are wheat, barley, maize, rice, gram, other grains and pulses and potatoes The climate of Kulu is suitable for growing all sorts of European fruits and vegetables The district has a large trade in pears and apples

Tea making is the important industry During 1941, 273,092 lbs of black tea and 2,669,261 lbs of green tea were produced in the district Cotton cloth is woven and baskets and blankets are made at KANGRA, KULU, LAHUL and SPITI Glass bangles are also made in the district

The chief exports consist of rice, tea, potatoes, spices, indigo, skins, piecegoods, blankets, pashmina wool, ghee, honey and beeswax, and the imports are raw silk and wool, charas, and general merchandise

The chief centres of trade for Kangra in the plains are at Hoshiarpur, Jullundur, Amritsar and Pathankot Considerable foreign trade exists with Ladakh and Yarkand through SULTANPUR in Kulu The exports to those places are cotton piecegoods, indigo, skins, metals, silk, sugar, and tea, and the imports from those places are ponies, borax, charas, raw silk and wool

Internal trade centres are KANGRA, PALAMPUR, SUJANPUR, TIRA, HAMIRPUR, JAWALA, MAKHI and NURPUR Traffic is cart-borne Sadar Station is DHARAMSALA

**Fair.**—A religious fair is held at Jawala Mukhi and Kangra during the Dusserah season and at Kulu in October Agricultural, industrial and cattle fairs are held at Bhawarua (Tahsil Palampur), Narihana (Tahsil Debra) in May and at Nagrota (Tahsil Kangra) in March

**KARNAL DISTRICT.**

The KARNAL district (area 2,396 sq miles; population, 852,613, language, Hindustani) is watered by the Jumna canal Kankar is abundantly found in the district

Chief crops are gram, wheat, rice, jowar, bajra, maize, other grains and pulses, rape and mustard and sugarcane, and cotton, fodder crops Haryana breeds of cattle are met with

KARNAL is famous for cotton Durries, Khesh (Bed Sheet) and other such articles There is one ginning factory and vegetable Oil Refining Work There are two large Agricultural Imperial Research Institute and Govt Dairy Farm There is also a Girls' Normal High School besides other training institutions

In PANIPAT there are oil mill, ginning factory, blanket and wool spinning arrangement also brass utensils and other articles are made

The exports are wheat, cotton, gram, fine rice, ghee, brass vessels, glass, sal ammoniac and saltpetre The imports are salt, oil seeds, iron and piecegoods

KARNAL (26,610), the district headquarters, exports grains and other raw products to Ambala, Delhi, Hissar and adjoining places Raw sugar is sent out further north Blankets, saddlery goods, harness and other leather goods form the chief industries of the town It does an extensive export trade in these articles

PANIPAT (population 32,915) is another trade mart. Other trade marts are KATTHAL (population 19,418), THANESAR and GUHLA

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N W Railway and the Grand Trunk Road run through the district. The Delhi and Hansi branches of the Jumna Canal are also navigable to a certain extent.

#### LAHORE DISTRICT.

The LAHORE district (area 3,648 sq miles, population 1,378,570 languages, Urdu and Punjabi) has an average rainfall of 23"

The district produces rich crops of wheat, gram, barley, cotton maize, rice and millets.

Cotton weaving, vegetable oil crushing, ivory bangle making leather and furniture making and printing on cloth are the industries. There are several gins and presses and there is a big railway workshop (N W. Ry.) The chief exports from the district are wheat, cotton, oil seeds and cotton seeds in large quantities. The important imports are piecegoods, brass and copper vessels, salt, sugar, oil engine, machinery parts, motor cars, etc.

KASUR —Leather goods and cotton carpets are manufactured here. It is only next to Lahore in importance. It is the centre of local trade and exports cotton and grain.

JALLO —There is a resin manufacturing factory situated at this place. Good resin is made here.

LAHORE —Lahore, the capital of the Punjab with a population of 429,747, stands on the river Ravi. Its nearness to Karachi drifts much of its trade to that port. It is the chief trading centre for the agricultural produce of the district. Wheat and other produces are transported from here to Karachi for export. Leather trade here is an important one and a large quantity of saddlery and shoes is turned out annually. Rugs and carpets are woven on a large scale. Cotton fabrics are largely made. Cotton weaving, spinning, ginning and pressing are carried on to some extent. Factories of modern types for the manufacture of soap, chemicals, hosiery, etc., are developing. There are tanneries, glass works, flour mills, sugar works, tobacco works, oil mills, ice factories and saw mills.

SHAHDARA —It is a centre of cotton weaving and printing industry. Refining of saltpetre is conducted on a large scale and several factories are engaged in manufacturing it from efflorescent earth. There is also a match factory here.

#### LUDHIANA DISTRICT.

The LUDHIANA district (area, 1,375 sq miles, population 672,494, language, Punjabi), has an average rainfall of 30"

The chief crops are wheat, gram, barley, rape seed, maize, pulses, millet and sugarcane.

Shawl weaving, cotton stuff, ivory billiard ball making, sugar refining, oil pressing, etc., are the main industries. There are several cotton gins and presses and flour mills.

The chief exports are wheat, maize, jowar, oats, barley, vegetable oil, rape seed, millets, pulses, woollen and cotton goods. The principal imports are piecegoods, cotton yarn, sugar, iron, salt, barley, brass and copper vessels.

LUDHIANA (population 68,536) is the centre of hosiery and woollen underwear manufacture. There are ice and dairy factories. It is an important grain market and all kinds of grains, viz., wheat, millet, etc., are brought for sale and exported to neighbouring towns. Ludhiana supplies turbans to almost all the Indian Regiments.

KHANNA (26 miles from Ludhiana) is an important market for salt, cotton and rice.

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JAGRAON, (population 68,586), 24 miles from Ludhiana, has a good grain market known as ANDERSONGUNJ. It exports brassware, copperware, woollen blankets, rice, gram, wheat, tobacco, pulses, barley, etc.

SAMRALA is also a centre of trade.

The traffic is carried by rail and boats. N W Rly traverses the district which is well supplied with metalled roads.

#### LYALLPUR DISTRICT.

The LYALLPUR district with a population of 13,96,305, covers an area of 3,514 square miles. Average annual rainfall is about 12 inches.

The district can justly claim to be the agricultural centre of the Province. Wheat, cotton, sugar-cane, toria and gram are grown in abundance and are exported to other places in the Province and beyond.

There are 8 mandis in the district, namely, LYALLPUR, CHAK JHUMA, JARANWALA, TANDLIANWALA, GOJRA, TOBA TEK SINGH, PIR MAHAL and KAMALIA which send along the agricultural produce of the countryside by rail and lorry.

LYALLPUR (population 69,930) the district headquarter is a flourishing industrial town and probably the biggest wheat exporting centre in the Province. It has an agricultural college which not only imparts knowledge on agriculture, but has also well equipped research laboratories. Apart from a considerable number of cotton ginning factories a number of other sorts of factories operate here. These include cotton mills, flour mills, vegetable ghee mills etc. The town is situated at a distance of 87 miles from Lahore and is connected with it both by rail and a metalled road.

TOBA TEK SINGH (population 6,066) is an important grain market. Wheat (in large quantities) and cotton are exported from here. It is the headquarter of a Sub-Divisional Officer (Civil).

GOJRA (population 12,964) is the second big market in the district. It exports wheat, cotton and toria. It is also an important eye treatment centre where patients gather from far and off for treatment.

JARANWALA (population 9,833) is a good grain market and is responsible for exporting wheat, cotton, and toria to other places.

KAMALIA (population 14,295) is a grain market. The town is known for its loom spun goods and printing on cloth.

Fairs.—Cattle fairs are held in all the mandis in the district almost every month. The biggest of them is the Cattle Fair held at Lyallpur in autumn and spring every year which last for a week. Agricultural and industrial exhibitions are also held on this occasion.

#### MIANWALI DISTRICT.

The MIANWALI district (area 5,368 sq miles, population 3,73,402. Elevation, 655 ft) is crossed by the Indus. The district has an average rainfall of about 12" only.

The district produces rich crops of wheat, barley, gram, bajra, pulses and jowar.

Rock-salt, alum, rock-oil, petroleum and coal are also available. The chief industries are the making of iron vessels and instruments, and cotton check weaving and basket making. Saltpetre is made from efflorescent earth on a large scale in the district at ROKHRI, KAL-BAGH and other places. 117,374 tons of coal was mined in 1939.

The chief exports are salt, alum, iron vessels, baskets, wheat, cotton, barley, rapeseed, oil seeds, wool and hides. The important imports are iron, cotton piecegoods, thread, silk, sugar, rice, potatoes, timber, and wines.

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MIANWALI (population 15,412), the district headquarters, is a flourishing town with some trade BHAKKAR, a station on the N. W Rly, is famous for its mangoes, dates and timber Wheat, gram, dates, beans, wool, oilcakes, rapeseed, tobacco and vegetable oil are exported in considerable quantities.

Other important trade centres are KALABAGH and KALLURKOT

N W Rly passes through the district and traffic is carried both by rail and by boat.

#### MONTGOMERY DISTRICT.

The MONTGOMERY district (area, 5,574 sq. miles, population, 999,772, language, Punjabi), is a perfect plain The average rainfall amounts to about 10" only

Chief crops are wheat, gram, bajra, maize, other grains and pulses, rape and mustard, cotton, fodder crops Saltpetre is also found Montgomery breed of cattle is famous The Haveli Project irrigates about 128,000 acres of land

The chief industries of the district are making of legs of bedsteads, boxes, toys, spinning wheels, cotton prints, cotton and woollen carpets, brass vessels, silk, etc It has ginning and pressing factories Refining of saltpetre is an important industry at ORAKA There is an oil mill at ARAFWALA.

The chief articles of export are wheat, cotton, oil seeds, wool, hides and ghee The imports are millets, rice, sugar, cloth, hardware, wines, stationery, machinery, machinery stores, etc

MONTGOMERY (26,164) is an important centre of trade, specially for cotton

OKARA (population 10,712), is the centre for cotton trade in the district It has several ginning and pressing factories The place is also known for its saltpetre

CHICKAWATNI is an important market for cotton as also vegetable oil, linseed, toria, etc It is 103 miles from Lahore, and 626 miles from Karachi

Other trade centre is PAKPATTAN (population 11,311)

The entire import and export trade of the district is carried by N W Rly which passes through it.

Fairs:—Malka Haus, Malka, March, Sheikh Mohd Fazal Fair, Sheikh Fazal, July, Baba Farid fair, Pakpattan, February; Mohd. Panah fair, Kurnir, April, Hazrat Daod Bandgi fair, Sher Garh, March, Nanaksar fair, Harappa, March, Pir Mohd Ali fair Ghulam Qadar in Pakpattan Tahsil, April

#### MULTAN DISTRICT.

The MULTAN district (area of 5,610 sq miles, population, 14,84,333 languages, Multani and Urdu) is situated on the northern border of the Rajputana desert. The average rainfall does not exceed 8".

Chief crops are wheat, jowar, bajra, gram and pulses, rice, rape and mustard, sugarcane, cotton, fodder crops Sugar, maize, tobacco and indigo are grown in small quantities Multan breed of cattle are prized all over India for their milk-yielding capacity. Wool is obtainable in abundance

The chief exports are wheat, cotton, indigo, bones, dates, vegetables oil, soap, wool, hides and carbonate of soda Multan also sends out huge quantities of dates and pomegranates The imports are rice, oil seeds, oil, sugar, ghee, tin, iron and piecegoods

MULTAN (population 1,42,768) is connected by rail with Lahore and Karachi and by the Ravi, the Jhelum, and the Chenab with the whole of the Central Punjab. Large quantities of raw produce are

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shipped by country boats from Sher Shah, the port of Multan, to Karachi. It collects cotton, wheat, oil seeds, sugar and indigo from the surrounding country for export to the south, it receives fruits, drugs, raw silk and spices from Kandahar traders and passes them on to the East. The Afghan traders take back indigo, European piecegoods and country-made cloth, sugar and shoes. Foreign merchandise is generally distributed through Multan to the western districts.

The chief local manufactures are silk and cotton weaving and carpet making, decent country shoes are also made in large quantities for exportation. The glazed pottery and enamel work of Multan, although not industries on a large scale, have a high reputation. The manufacture of tin boxes and soap are growing important industries. Surgical instruments and hospital requisites of Multan have already established a reputation in the market.

KHANEWAL (population 17,036), a station on the N. W. Rly. has a big grain market near the Rly. Station.

N. W. Rly. passes through the district and carries the entire trade.

#### MUZAFFARGARH DISTRICT.

The MUZAFFARGARH district has an area of 1,339 sq. miles and is peopled by 600,000 persons. Language is Multani. The average annual rainfall is about 7" only.

Wheat, gram, rice, sugar, indigo, pulses, rape, mustard, cotton, lotus, are grown. The district is noted for its extensive production of excellent dates, mangoes and pomegranates. Sheep are reared for wool production.

There are several cotton-ginning and rice-husking factories scattered over the district. Good ivory work is done at LEIAH while a Power House is now producing electricity at the District headquarters (Muzaffargarh) 20 miles from Multan. Mat and basket-weaving, cotton-spinning and weaving are cottage industries.

MUZAFFARGARH is the district headquarters. It is only 9 miles from Sher Shah and 19 miles from Multan.

The chief exports are wheat, sugar, cotton, indigo, ghee, dates and mangoes. The important imports are piecegoods, metals, salt and lime.

N. W. Rly. pass through the district and traffic is carried both by rail and by river.

#### RAWALPINDI DISTRICT.

The RAWALPINDI district (area, 2,051 sq. miles; population, 634,357, languages, Punjabi and Pothwari) is one of the frontier districts of the Punjab. The average annual rainfall is 42".

Chief crops are wheat, jowar, bajra, maize, grains and pulses. Some inferior quality rice is grown in the Murree Hills where potato has proved a great success.

Oil springs exist in the district. Cotton is woven everywhere. Silk embroidered phulkaris are famous. Railway workshop of the N. W. Rly. is situated at RAWALPINDI. There are also gas works and breweries, tent factories and iron foundries. The district produces a fair quantity of raw wool. Leather is tanned and embossed in RAWALPINDI Town.

Trade is carried on in necessities of Murree and Rawalpindi and the through traffic for Kashmir passes through Rawalpindi. The exports are grains and oil seeds, hides and raw wool, Kashmiri woollen goods and fruits. The imports are piecegoods, rice, hardware, tea and salt, motor cars, cycles, sugar, coal, fruits (from Murree and Kashmir), ghee, etc. Timber comes from Kashmir.

RAWALPINDI TOWN (population 181,169)—It is the chief town and district headquarters and is one of the largest military stations in

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India A horse show is held here annually in the first week of March at Horse Show Ground, Murree Road

GUJARKHAN is a market for pulses, tobacco and ghee

KAHUTA is known for its export of Indian herbs, promegranate seeds walnuts etc

N W Rly crosses the district. Metalled roads are the Grand Trunk Road and the Kashmir Road.

### ROHTAK DISTRICT.

The ROHTAK district (area 2,247 square miles, population 956 389 language Hindustani and Brijbhasha) has an average rainfall of about 19.68"

Area under crops in acres for 1940-41 —Wheat, (1,42,837), barley (2,08,81), jowar (1,40,626) bajra (4,73,330) gram (95,886), sugar-cane (32,137) other cereals (9,628), oil seeds (304), condiments and spices (7,202) fibres (50,364), tobacco (920), fodder crops (1,75,046), total 12,27,405 acres

The pottery of JHAJJAR and the saddlery of KALANAUR and fine muslin turbans of Rohtak town are the chief industries Woollen blankets are woven somewhere in the district There are several cotton gins and presses Cloth weaving is carried on for local consumption only

The chief exports are grains and cereals

ROHTAK town (population 48,148) is an important trade centre in the Punjab Muslin turbans interwoven with gold and silver thread and a form of muslin known as Tanzeb are produced It is a big grain market

BERI (population 15,000) is an important industrial centre where sandalwood goods are made Fancy ivory sticks and handloom cloths are also made

Among other centres of trade mention may be made of SONEPAT (an important grain market), GOHANA, BAHADURGARH, SAMPLA (grain and cotton markets)

The district is traversed by the Southern Punjab Railway, Riwari Bhatinda and Malwa Rajputana Railway and Rohtak Gohana Panipat Railway and is well provided with good roads

Fairs.—Cattle fairs are held in the Autumn and Spring under the control of the District Board at Jahazgarh Bahadurgarh and Koshi in JHAJJAR TAHSIL at Mehm in GOHANA TAHSIL and Kharanti in the ROHTAK TAHSIL The Donkey fair at Beri is held half-yearly by the Municipal Committee, Beri

### SHAHPUR DISTRICT.

The SHAHPUR district occupies an area 4,799 sq miles and a population of 821,490 Language is Punjabi Average annual rainfall is about 15" near the Salt Range

Chief crops are wheat, gram, cotton, fodder crops, bajra, rape and mustard etc The forest produces acacia arabica and shisham Salt is found and bored in the Salt Range.

Coal is found in the district, the output being 7,708 tons in 1939

Cotton cloth is woven and exported Felt rugs are made at KHUSAB and BHEERA Blankets, felts, etc are also made at the latter place Stones are used in making handles for knives, razors, etc Wood work of BEHERA and lacquered work of SAHIWAL are also famous Crude saltpetre is also manufactured

SHAHPUR town (population 10,000) is not important commercially

SARGODHA (population 26,761) is the Sadar Station and an important centre of trade for wheat, cotton, pulses, rape seed, ghee, gu,

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sugar, gram, and wheat flour The chief imports are piecegoods, metals, sugar and rice

N W Rly. crosses the district with a short branch to Bhera and another from Dhak to Katha Sargodha and Khushab, and Sargodha and Lyallpur are also jointed by a railway line The district has good metalled roads

**Fairs**—Sargodha, Cattle and Horse Show Fair, April, 6 days, and Dushehra, October, 1 day, Chak 127 S B, Guruser, January, 3 days, Chak 127 S B. and Bisakhi, April, 2 days, Chak 78 N B. Bisakhi, April, 1 day, Dharema, Mela Habib Sultan, December, 2 days, Chak 45 S B, Bisakhi, April, 1 day, Chak 55/35 S B Mela Mohd Shah, June, 2 days, Chak 101 N B, Bisakhi, April, 1 day, Chak 109 N B, Naugazah, June, 2 days, Kirana Hill Station, Kirana, March, 3 days; Chak 31 S B, Mela Sain Karam Elahi, July, 1 day, Chak 38 N B, Mela Qasim Ali Shah, July, 1 day, Khushab, Hafiz Diwan Sahib, 2 days, and Sd Kuruf Shah and Marufshah, April, 1 day, Girof, Bisakhi Dyal Bhawan, April, 1 day, Shah Jamali, April, 1 day, and Dushehra, October, 1 day, Narsingh Pohar, April 1 day, Shahpur City, Shah Shamas Fair, April 4 days, Khamb Nau, Mela Sakandar, February, 1 day, Thakhat Hazara, Shah Shahamdi Mela, April, 3 days, Miani, Bisakhi, April, 1 day, Sheikhpur, Qatwalla All Sundays of Chet, 4 days, Turtipur, Andham Sultan, July, 1 day; Bhalwal Old Abadi, Sheikh Suleman, June, 4 days, Khushab, Cattle Sheep & Goat Fair, March, 2 days, Nabi Shah Khurd, Shah Shahabal, July, 3 days, Faruka, Mohib Shah, August, 2 days, Sahiwal, Lal Shrin, July, 2 days, Shahpur Sadar, Cattle Fair, 24 25 & 26 every month, 3 days, Bhalwal, Cattle Fair, 11, 12 & 13 every month, 3 days

### SHEIKHUPURA DISTRICT.

The SHEIKHUPURA district (area 2,313 sq miles, population 836,140) is mainly agricultural Rainfall is moderate

Chief crops are wheat, cotton, rice, oil seeds, grams, fodder crops, etc

SHEIKHUPURA (population 22,272) a railway junction station on North Western Railway, 26 miles from Lahore, has got a market whence wheat, cotton, rice, and toria are exported

At NANKANA SAHIB a big Sikh fair is annually held on Kartik Purnamashi (Full moon day in the month of Kartik). Trade here consists of ghee, gur, rice, wheat, gram, cotton (Indian and American) and other raw produce

CHUHARKANA MANDI is a market for rice, gur, gram, ghee and rape seed

SANGLA HILL, 68 miles from Wazirabad and 62 miles from Lahore, is an important market for wheat, cotton, gram, barley, raw sugar, rapeseed, til, ghee, and gur It exports wheat, gram, linseed vegetable oil, cotton, gur, etc Imports consist mainly of agricultural implements, hardware, piecegoods, woollen goods, etc

SHAHDARA, 5 miles from Lahore, exports matches, suji, flour, mangoes and country cloth and imports coal, woollen goods, general merchandise, etc

Other trade centres are MUSIDKE, 18 miles from Lahore, market for rice, NARANG 30 miles from Lahore, market for rice; DHABAN SINGH, 44 miles from Lahore, market for wheat and cotton; WARBARTAN 46 miles from Lahore, market for wheat, cotton, gram, sugar, oilseeds; BUCHEKI, 50 miles from Lahore, market for wheat and cotton

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## 500 INDUSTRY YEAR BOOK & DIRECTORY, 1943

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North Western Railway and the Public Works Department Arterial roads from Lahore to Lyallpur and from Lahore to Sargodha traverse the district and are its chief means of transport

### SIALKOT DISTRICT.

The SIALKOT district (area 1,958 sq miles, population, 1,190,139, language, Punjabi) is intersected by the Ravi, the Degh and the Chenab. The average annual rainfall is about 35"

Chief crops are wheat, barley, bajra, maize, gram, other grains and pulses, sugarcane, cotton, and fodder crops

Tents, boxes and surgical instruments are made. Cotton ginning is carried on. Beddings, shatranjies (durries), asans, etc., are manufactured in the district. Printed cotton stuff and cotton weaving are carried on at PASUR and shawls of pasham at KOILA. SHOBA SINGH Sporting goods are made at SIALKOT.

The chief imports in the district are grains, rice, tobacco, ghee, timber and tea, besides cantonment necessities. The chief exports are rice, sugar, pepper, cotton cloth and brass vessels. The district is well supplied with roads.

The town of SIALKOT (population 109,973) is a flourishing trade centre and an entrepot for agricultural products. Cricket, tennis and hockey bats, sticks and sporting accessories, tents, surgical and musical instruments, etc. are made here in large quantities. These industries have gained a firm footing and are in a fairly prosperous condition. The present supply of raw materials which consist mainly of mulberry wood, comes from the Chhanga Manga Forests. There are several flour mills.

Cattle Fairs at Sialkot (Tehsil Sialkot), Korek (Tehsil Daska) and Thro (Tehsil Pasur).

### SIMLA DISTRICT

The SIMLA district (area 81 sq. miles, population 36,786; languages, Urdu, Hindi, Pahari and Tibetan), is 7,220 ft above sea-level. Average annual rainfall is about 42"

Cultivation is sparse. Area under cultivation during 1939-40 was 14,466 acres. Potatoes, hemp, turmeric and ginger are largely cultivated and exported to Ambala and Kalka.

The district has considerable trade with Chinese Tibet at Wangtu near Kotgarh. But the trade is generally with Rampur and Bashahr. The imports are wool, borax and salt and exports are cotton piece-goods, sugar, iron and woollen goods.

Shawls and coarse blankets are made at SHUBATHU, which is a small hill cantonment and sanatorium, 23 miles from Simla.

SIMLA (population 18,252) is the summer capital of the Government of India. It is a favourite hill station. The chief exports are beer and spirits from the breweries and distilleries and apples, potatoes and ginger. It is also an entrepot of trade with Tibetan China. Trade in Simla is brisk during March-April to October when high Government officials, princes and distinguished visitors assemble there. Traders in fancy goods and goods of everyday use come here at this time.

KALKA—It is situated on the Kalka-Simla Railway. Bamboos of this place make good lathis. Ginger of very good quality and potatoes are exported in large quantities.

There are 3 cantonments in the district, viz Subath, Dagshai and Jutugh.

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**BENGAL SWEETS** supplies directions for the preparations of all varieties of sweetmeats of Bengal. Re. 1/12. Industry Book Dept., Calcutta.

## DELHI

**D**ELHI DIVISION (area 577 sq miles, population 9,17,000) is now under the administration of a Chief Commissioner. Urdu, Hindi and Punjabi are the languages spoken here. The principal crops of the division are sugarcane, wheat, barley and cotton. All sorts of raw goods, grains, spices, seeds, medicinal herbs, silk cotton manufactures, and flour, oil and biscuits are available in large quantities. Among other local products of artistic value are velvet, kunkhab, salma, chumki and suchna, ornamental works are also largely obtainable from the place. Metal utensils, good tobacco, surti, kumam, various kinds of toys, country made rose water, floral oils, pickles, boots, leather goods, shoes, costly bedsheets and satranjies, carpets and gargaras are available here. Ivory carving and gold and silver wire embroideries are excellent. Leather wares, dried fruits and all sorts of any goods are also available here.

**Irrigation:**—Total area irrigated in Delhi during 1940-41 was 76,000 acres of which area irrigated by Government canal is 31,000 acres, by wells 34,000 acres and by tanks 2,000 acres.

DELHI (population 917,000) city takes the first place as a commercial town in Northern India, rivalling Cawnpore and Amritsar and ranking next only to the seaports of Calcutta, Madras, Bombay and Karachi. It is a great distributing centre and its field of operation extends on all sides to a wide circumference. There is through communication with the different radial parts. Indeed, Delhi is the junction of all the large railways in Upper India, and her central position and the excellent facilities of communication ensure for her an important commercial position which is evidenced not only by the large business done in importing and distributing commodities wholesale, but in the number of industrial establishments which have sprung up in and around the City. Arrivals and despatches of large volumes of coal, cotton and cotton yarn, cotton piecegoods, gram and pulses, gunny bags, petrol, tea, etc are made through this important commercial centre. There are 6 cotton mills with a total 109,556 spindles, 2,878 looms and an average of 5,092 hands working daily and they are doing well. During 1941-42 local cotton mills spun 38 million lbs of yarn and 85 million yds of woven goods. All sorts of modern industries are also making headway here. Delhi is moreover, the exchange, financing and clearing house of the Punjab and of a large part of Upper India and Rajputana. There are two associations to look after the economic and financial interests of the merchants, viz the Punjab Chamber of Commerce and the Delhi Hindustani Mercantile Association.

Piecegoods, woollen and silk goods, etc are imported in vast quantities from England, France and U S A. There are several European firms and Indian commission agents who receive orders from the dealers and arrange for shipments from foreign countries. The dealers occupying the cloth markets or Katras are chiefly Marwaris. The commission agents, who are locally known as Aratiyas, send out goods to merchants in the Punjab, United Provinces and Rajputana, especially to the centres at Amritsar, Cawnpore and Ajmer.

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## 502 INDUSTRY YEAR BOOK & DIRECTORY, 1943

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The items included in shops for retail sale of Besat Khana are bangles, cigarettes, crockery, felt caps, hats, hosiery, laces, lamps, lanterns, oilman's stores, provisions, shoes, soaps, stationery, trunks, toys, and other fancy goods. The wholesale trade in the miscellaneous articles is mostly in the hands of Punjabi Mahomedans and SADAR BAZAR is the place of their business.

Groceries which include dried fruits, turmeric, spices, beans, almonds, palms, coconuts, betelnut, etc are received from Kabul, Baluchistan, Bombay, Singapore, Madras, etc. The wholesale merchants have their shops in KHARI BAOLI.

There are several iron foundries in Delhi which supply various articles to mufossil, specially sugarcane crushers and pans. Several dairy farms of this district have an India-wide market.

There were 41 factories in the province in 1937. These included 6 cotton mills, 5 hosiery mills, 8 engineering works, 2 cement and pottery works, 1 chemical factory, 1 paint works.

Business in gold lace, gota and embroidery, etc is carried on in Dariba. It is a great pity that the genuine gold laces have been mostly replaced by cheap imitation goods imported from abroad.

Grain business is confined to a place where facilities in the shape of railway sidings and goods yards are given. Wheat comes from the local canal tracts and is mostly exported again. The same remark applies with regard to barley. The rice is obtained for local consumption only from places like Nawabganj, Amritsar, Multan, Pilibhit, etc. Mustard, grown locally, is exported to Calcutta and Bombay, but linseed, which is brought from the United Provinces is not re-exported. Wheat, barley, gram, pulses and like grains are imported from the neighbouring districts of the Punjab and the United Provinces and passed on to Bombay and Karachi.

Hardware such as corrugated iron sheets, girders, fittings, and metal goods such as brass and copper sheets are imported from Bombay and Karachi. The chief hardware market is CHAORI BAZAR.

Brass and copper utensils are either made locally or imported from noted places like Moradabad. Hides are obtained from all over the Punjab and are exported to Cawnpore or abroad. Bullion is imported from Bombay. A quantity of the silver and gold is re-exported to smaller markets. Timber is imported from Nepal, Kashmir, and the Simla Hills, stone slabs are imported from Agra and Bharatpur. There is considerable trade in jewellery, precious stones, shawls, embroidery, gold and silver wares, ivory work, curios, etc.

Among the less important articles of commerce are ghee, sugar, tobacco, country-made shoes, turbans and pickles and preserves.

The scarcity of water supply in New Delhi has been overcome by Government efforts. Delhi has also a University of its own. Primary education is compulsory within the municipal area.

DELHI is about 900 miles from Calcutta and about the same distance from Bombay. It is the biggest Railway junction in India and is served by almost all the principal State owned Railways of India e.g. N W Rly, E I Railway, G I P and B B and C I Railway. It is connected to even the remotest part of the country by means of these railway lines. Also a Light Railway owned by Messrs Martin & Co, runs through the district. Delhi has an Electric Tramway too which traverses the city and serves an area of about 6 miles. Regular bus services connect the city with such ancient places as Panipat, Muttra, Aligarh, Rohtak, Ghaziabad, Meerut, etc.

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**PRACTICAL METAL CASTING**—A comprehensive treatise on the art of founding with practical details. Rs. 2/8, Industry Book Dept., Calcutta.

## MARKET PLACES OF THE CENTRAL PROVINCES

**T**HE Central Provinces is situated, as its name signifies, in the central part of India and comprises, with Berar, an area of 130,000 square miles and is inhabited by a population of 16,822,000. A large part of the provinces, over 28 million acres, falls under the jurisdiction of the Native States, the chief of which are the Chhattisgarh States comprising Raigarh, Saktigarh, etc.

Of the total area in the Central Provinces 24,546,000 acres were under cultivation in 1940-41. The area of land lying fallow is 3,730,000 acres, forest 15,839,000 acres, culturable waste 4,881,000 acres.

**Soil:**—The soil of the district is black cotton, loam and alluvium, suitable for the cultivation of cotton, rice and food grains. The average rainfall is about 50"

**Climate**—The climate is free from extremes and the rainfall is everywhere good. A large area is still covered with forests and jungles. The mountain slopes are clothed with valuable timber including teak, sal, etc. Lac is collected in the forests. Myrobalans are available in abundance in the forests and the Jubbulpur varieties are in great demand in India and abroad. Silk cocoons are also obtained.

**Crops.**—By far the most important crop grown in the Provinces is cotton of the Oomrah variety. The area under cotton cultivation during 1938-39 was 3.7 million acres which yielded 549,000 tons of cotton as against 698,000 tons during 1937-38. Berar is eminently suited for the cultivation of cotton, the chief cotton station in Berar Division being Akola, Akot, Amraoti, Ellichpur, Karanja, Khamgaon, etc. The chief stations of cotton cultivation in the Central Provinces excluding Berar are Arvi, Warud, Dhamangaon, Pandar-Kawda, Hinganghat, Nagpur, Wardha, Warora, Wun, Yeotmal, Katol, Saoner, etc. Average staple of the cotton is 5/8" to 6/8".

Among other crops grown in the Central Provinces and Berar during 1940-41 in the Provinces were rice (5.9 million acres), wheat (3.3 million acres), jowar (4,533,000 acres), gram (11,52,000 acres) other grains and pulses (5,417,000 acres), oil seeds (1,914,000 acres), etc. The Province has the largest area in India under the linseed crop (1,218,000 acres). Til seed also figures prominently (477,000 acres). Cultivation of groundnut has gone up to 280,000 acres. Other areas are bajra (110,000 acres), maize (152,000 acres), rape and mustard (66,000 acres), castor seed (29,000 acres), sugarcane (33,000 acres), condiments (131,000 acres), etc., are also raised. The total area under cultivation in C P and Berar was 27.5 million acres. Oranges and mangoes grow abundantly in the province and are exported to Calcutta and other markets. Nagpur oranges have got a firm hold on the Calcutta market.

From an agricultural point of view the Central Provinces and Berar may be divided into four tracts. The first is the wheat tract of the Nerbada valley; the next, Berar and the Nagpur tract, where cotton is staple, and the people are both industrially and agriculturally, more advanced than elsewhere. The third has for its distinctive crop

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rice, which is grown mainly in the Wainganga valley and in the great plain of Chhattisgarh. The fourth comprises the upland districts, the centre of the province, where cultivation is in a comparatively backward state but the country is covered in many places with useful forests and contain valuable minerals. Although by far the larger portion of the locally produced cotton is exported, enough is worked up locally to give a decidedly industrial bent to the population of such towns as Nagpur, Akola and Burhanpur, and the export and manufacture of cotton have built up a wealthy class of traders and industrialists, who have placed this tract in point of resources very far ahead of any other part of the province, however fertile the soil.

**Minerals.**—The most important mineral mined in the province is manganese ore which occurs most in the districts of Balaghat, Nagpur and Bhandara, where increased activity is reported. This is consumed by the iron and steel factories for the manufacture of ferro-manganese. Manganese ore is exported by rail to Calcutta, Bombay, Vizagapatam and Tatanagar, Vizagapatam taking the major part of the despatch. The ore is exported out of India but lately the exports have been affected by competition from Russia. Iron is found in the Chanda and Drug districts. Iron ores also occur in the Raipur and Jubbulpore districts. The most striking occurrence in Drug is the ridge which includes the Dhalli and Rajhara hills, the latter being estimated to contain 2½ million tons of iron carrying about 67.5 per cent of iron. The smelting of iron and the production of workable metal from the crude ore are carried on in some parts of the Central Provinces as a sort of home industry. In the neighbourhood of every well-known mine there can be found families of smelters. Coal is obtained in the vicinity of Warora. The outturn of coal during 1939 in C P was 1,742,831 tons, of which Pench Valley was responsible for 1.4 million tons. Copper ore, also occurs in the province, but is only spasmodically worked. Bauxite is found in the Balaghat district and in the vicinity of Katni in the Jubbulpore district. Some good deposits occur in the Seoni and Mandla Districts. The ore contains a very high percentage of aluminium and is exported to Europe and Japan at cheap rates. Output of chief minerals in 1938 follows: Manganese ore 646,465 tons, lime stone and kankar 551,978 tons, bauxite 4,634 tons, steatite 2,189 tons, iron ore 611 tons.

**Industries.**—The principal industries of the province centre round cotton production. Among other industries may be mentioned lime and cement factories, rice mills, oil presses, glass factories, and saw mills. Coarse textiles, brasswares, etc., are turned out on a cottage industry basis. Cloth is woven in three qualities—coarse, medium and fine. Other notable industries are silk bordered, gold and silver lace weaving, tassar industry, pottery, brick and the tile making and leather industry, oil milling, wool industry, dyeing and calico printing, blankets, sheep rearing, brass and copperware, tassar and mulberry silk production; mat and baskets, hosiery, cotton rope and tape making, toy, smithy and carpentry.

Among modern industries special mention should be made of cotton ginning, manufacture of cotton goods, etc. Cement industry is progressing rapidly and there are a number of cement factories at Mekgaon, Katni, Kymore and Jubbulpore. Lime and pottery industries are in a flourishing condition. A small pottery factory has been established at Nagpur. There are three match factories and two glass factories. Other industries include ice and aerated factories, oil mills, saw mills, mining, breweries, flour mills, rice mills, paint work, etc. There

Modern foundry shop practice is described in **PRACTICAL METAL CASTING**. Rs. 2/8. Industry Book Dept., Shambazar, Calcutta.

## MARKET PLACES OF CENTRAL PROVINCES 505

are 7 cotton mills in the Central Provinces and 4 in Berar. There are 3,00,270 spindles and 5,294 looms in the Central Provinces, and 69,048 spindles and 1,443 looms in Berar. During 1941-42 cotton mills spun 64 million lbs of twist and yarn and 95 million yards of woven goods. Druggets and floor carpets are woven from the local woollen yarn in a variety of designs which are appreciated by people.

**Factories**—There are about 860 registered factories in the province. Of them, 549 are seasonal. These factories include 479 cotton ginning and pressing factories, 56 rice mills, 46 oil mills, 5 saw mills and 3 match factories. The districts where pressing is done most are Nagpur, Wardha, Nimar, Akola, Amraoti, Yeotmal. Besides, there is a number of railway workshops and ordnance factories.

**Trade**—The trade of the province consists of exports of cotton, rice and food grains, etc. Considerable quantities of forest products, viz., lac, myrobalans, timber (sal, teak, saj, etc.), hides and skins, gum, etc., are also exported. Mohua flower and biri leaves are available in great abundance and are exported. Mangoes, oranges (from Nagpur), and plantains are exported. The imports are coal, coke, piecegoods, salt, etc.

**Irrigation**—Total area irrigated during 1940-41 was 1,787,000 acres of which area irrigated by Government canals is 15,47,000 acres, by wells 1,65,000 acres, by other sources 75,000 acres.

**Railway and River Borne Trade**—Imports—Coal, cotton, yarn, piecegoods, fruits dried, glass, wheat flour, gunny bags and cloth, iron and steel, kerosene, vegetable oils, salt, sugar, gur and timber. Exports—Cement, coal, raw cotton, myrobalans, rice, wheat, hemp, manganese, lac and shellac, oil cakes, cotton seed, linseed.

**Transport & Communication**—The province is well served by a network of railways, the chief being the B N Ry and the G I P. Ry. The traffic is both rail and road-borne.

### AKOLA DISTRICT.

The AKOLA district covers an area of 4,090 sq miles and has a population of 876,362. Average rainfall is about 35". Languages are Marathi and Urdu.

The staple food crop grown is jowar (607,000 acres); cotton (819,000 acres) is also grown on a large scale. Other crops are rice, pulses, gram, and oilseeds. Groundnut is grown over 36,000 acres and wheat over 93,000 acres. Berar cattle are obtainable at BALAPUR. There is a reserved forest in the Balaghat area, the products of which are khair, amla and teak. Stone is mined.

Cotton carpets are woven at AKOT and BALAPUR. There are several cotton ginning and pressing factories and 2 cotton mills. Preparation of cotton for the market is the only industry.

The imports are grain and pulses, coal and coke, salt and sugar. AKOLA, the headquarter town, has a population of 47,632 and is one of the principal centres of cotton trade. The market is situated at TAJNAPETH. Raw cotton is sent to Bombay by rail from AKOLA.

AKOT town (population 18,693). The tract surrounding, is interspersed with garden lands and mango groves. There is a big mart for cotton which is sent to AKOLA. Good cotton carpets are woven there.

MURTIZAPUR (population 11,541) on the G I P. Ry., is another big market for grain and cotton.

Other trade centres are TALAGAON, BALAPUR, KARANJA (16,615) and BASIM (14,409).

Modern foundry shop practice is described in PRACTICAL METAL CASTING. Rs. 2/8. Industry Book Dept., Shambazar, Calcutta.

**AMRAOTI DISTRICT.**

The AMRAOTI district (area 4,704 sq. miles, population, 941,975) is usually 800 ft above sea level. Rainfall average 30" annually

Chief crops are jowar (staple), wheat, gram, groundnut and cotton. Oilseeds and pulses are also grown.

The silk industry at KOLHAPUR has considerably dwindled. Cloth weaving and yarn making are carried on at BADNERA. Preparation of cotton for ginning and pressing factories is the chief industry of the district. Khaddar and carpets of ELLICHPUR have a good reputation in the market. DHAMANGAON is a most important cotton and grain market.

The district exports raw cotton, oil seeds, grains and pulses to Bombay and Calcutta. Imports are grains and pulses from U. P., coal and coke from Bengal and C. P., salt and sugar from Bombay.

Formerly the greater part of the cotton of Berar was taken on bullocks to Mirzapur and thence conveyed in boats to Calcutta. Now however the greater part goes to Bombay.

Ginning and pressing of cotton claims the first rank in the industries of the district. Besides, there are oil presses, linseed oil being most commonly produced. The most important cottage industries are the clearing of cotton, the making of seed oils of various kinds. Hand-weaving is done in cotton, silk and wool or in combination.

AMRAOTI —Amraoti the headquarter, has a population of 61,987. It is now the principal cotton mart in Berar, and is connected with the Nagpur branch of the G. I. P. Rly. Cotton is by far the most important item of commerce and is sent by rail to Bombay and Calcutta.

Other exports worthy of mention are oil seeds, grain and pulses. Raw cotton includes of course ginned and pressed cotton, and covers 75 per cent of the total value of exports.

The list of imports chiefly comprises articles of food and clothing, the chief items being grains and pulses, coal and coke, salt and sugar.

Oil seeds, grains and pulses are exported to Bombay and the Central Provinces. Grains and pulses are imported chiefly from the United Provinces and Bengal, salt from Bombay, sugar, chiefly from Bombay but also from Bengal and the United Provinces.

The Nagpur Branch of the G. I. P. Rly. is the chief means of communication. The town of Amraoti is connected with Badnera Junction by a State Railway six miles long.

ELLICHPUR (population 31,486) —Cotton carpets are woven. Considerable quantity of forest products including boswelha, adina, etc. are brought here from MELGHAT for sale in the weekly markets. Sandstones for fine carving are available.

Cotton and silk fabrics are woven and dyed at ANJANGAON (population 11,597) in Daryapur taluk. The largest industry however is the preparation of cotton for the market and there are several ginning and pressing factories. The chief imports are grain and pulse, salt, sugar, etc. The main exports are cotton, grains, pulses, oil seeds and forest products. These articles are first sent to Amraoti or Badnera whence they are despatched by rail to Bombay.

DARYAPUR having connection with Murtizapur is another trade centre of the district.

The district contains a network of good roads.

**BALAGHAT DISTRICT.**

The area of the BALAGHAT district is 3,572 sq. miles. Its population is 634,350. The population of Balaghat town is 11,482. The dia-

Modern Methods of extracting, refining and bleaching of oils are explained in "Vegetable Oil Industry," Re. 1/12, Industry Book Dept., Cal.

## MARKET PLACES OF CENTRAL PROVINCES 507

lects spoken are Powari, Lodhi (mixture of Marathi and eastern Hindu), Gondi, Marathi and Hindi. Vegetables are scanty.

Crops grown are rice, kodon, kutki, wheat, urid, linseed and tur, rice covering about two-thirds of the net cropped area. The agricultural area is generally protected by the Government and private irrigation works. Castor and tobacco crops are grown on the SONE banks.

The district is one of the chief centres for the supply of manganese ore. Most of the largest mines are owned by the C P Manganese Ore Company. The ore is brought to the railway at BALAGHAT and TIRODI. Lac which was once a profitable source of income from village forests is now neglected due to the low prices.

There is hardly any industry worth the name, but weaving of coarse cloth at WARASEONI and LALBARRA still continues and that of newar (tape) at KIRANPUR.

The chief articles of exports are rice, pulses, urid, tobacco, teak and sal sleepers, bamboos, hides, horns, myrobalans, lac, gum, etc., etc. Tendu leaves for making bidis are collected in many of the villages. The imports are salt, gur, sugar, jowar, wheat, gram, arhar, brass vessels, etc., etc.

The trade centres are at WARASEONI, LALBARRA, KATANGI, BALAGHAT, LANJI, LAMTA, BAIHAR, MOHGAON and DAMOH only. BALAGHAT, WARASEONI and KATANGI have extra-district importance.

BALAGHAT CITY (11,482) has a certain amount of trade.

Fairs.—There are no agricultural, industrial, and cattle fairs held in the district but weekly cattle markets are held at 10 places.

### BETUL DISTRICT.

The BETUL district (area 3,891 sq miles, population 406,252; languages, Marathi, Hindi, Gondi and Korku) has an average annual rainfall of 46".

The crops grown here are kodan and kutki, wheat, jowar, oil seeds, til, jagni and rice.

Coal is mined at SHAHPUR, the output in 1939 being 7,708 tons. Excellent marbles occur in the district.

Coarse cotton cloth of inferior quality is woven; brasswares are made at AMLA, RAMLI, JAWAL, KHEDA but brass vessels are imported from Hosangabad and Chindwara.

The principal grains exported are wheat and oil seeds, gram, tuma, and cotton. Jowar is imported from Berar. Gur is exported to Berar and Nerbada Valley. The exports of forest products are timber, mohua, myrobalan, chiranj, and gulli (the oil of mohua oil seeds). Tikhari oil, gum and lac are also exported. Timber is available. The imports are yarn (from Nagpur), cotton piecegoods, kerosene oil, hardware, gold and silver, salt, groceries and spices. Betel leaves and turmeric come from Berar. Purchase and collection of grains are done by telis who carry them on bullock carts. There are numerous weekly markets here, where retail transaction takes place. A weekly cattle market is held at the BETUL BAZAR which has a population of 5,378 and is practically an isolated tract. Cattle markets are also held at BIROOL (Multai Tahsil).

Fairs.—A religious fair is held annually at Multai, Bhopal and Malajpuri near Chicholi, where household articles and furniture are made.

### BHANDARA DISTRICT.

The BHANDARA district (area, 3,623 sq miles, population 324,496, languages, Marathi and Hindi) has an annual rainfall of 55".

Modern Methods of extracting, refining and bleaching of oils are explained in "Vegetable Oil Industry." Re. 1/12, Industry Book Dept., Cal.

Chief crops are rice, wheat, jowar, linseed. Area under cultivation. Rice 1,172,000, wheat 89,000, maize 20,000, gram 37,000, pulses 647,000, linseed 117,000. Ginger, oranges and plantain are grown in the villages of JAM and ANDHARGAON and are sent to Nagpur. Manganese ores are worked near TUMSAR. Building stones and road metal are also found in the district. Pot-stones and steatitic schists are also found in the district.

Weaving of silk bordered cloth is carried on at BHANDARA (PAUNI MOHARI and ANDHARGAON). Fine cloths made at PAUNI are famous and compete in markets. Eri silk comes from Nagpur and Assam. Brass and brass vessels are made at BHANDARA, stone jars at KANERI and cart wheels at TUMSAR. Soft grass matting, bamboo basket and matting are also made.

Rice is sent to Bombay, Nagpur and Berar, wheat, gram, pulses and urid and oil seeds are also exported which are taken by cart from PAUNI to Nagpur. Teak and acacia timber and bamboos, mohua, myrobalans, hides and lac, are exported in large quantities. Manganese ores are also exported. The imports consist of piecegoods (from Bombay and Nagpur), kerosene oil, salt, sugar, gur (from U. P. or Bombay), jowar and arhar.

The chief centres of trade are GONDIA (14,957), TUMSAR (10,061), TIRORA, AMGAON and PAUNI (12,525). There are grain markets at GONDIA, TUMSAR and BHANDARA.

BHANDARA (population 16,733) is an important station on the B. N. Rly. The town is famous for brass making.

#### BILASPUR DISTRICT.

The BILASPUR district (area, 7,618 sq. miles, population, 15,50,122; languages, Hindi, Oriya, and Chhatisgarhia, an Eastern Hindi dialect) contains dense forests with elevated plateaus along the north of the district. The average annual rainfall is about 52".

The chief crops are rice, kodan, wheat, linseed and pulses.

The tassar silk of BILASPUR is best in C. P., cotton cloths with borders of tassar are also woven. Tassar goods are produced at CHAMPA, BAMHNIDIH, and CHANDRAPUR. Bell-metal vessels are made at RATNAPUR and CHAMPA. Catechu is prepared and the people themselves dye their own cloths. Lac industry flourishes at CHAMPA, KOTA and PENDRA. Beedies are made at CHAMPA and BILASPUR. Iron ore, clay and lime stone are met with. There is a limestone quarry at AKALTARA. There are 18 rice mills in the district, at BARADUAR, NAILA, JANJGIR, AKALTARA, BANAHIL, FAGURAM and CHAMPA. There are 3 oil mills, at BARADUAR, at NAILA and at CHAMPA.

The chief exports are rice to Bombay and Berar and Northern India. Wheat, til, linseed and mustard are also exported. Sal and bifasal (sleepers) are sent to Calcutta, lac is sent to Mirzapur. Other exports are logs, sesamum, poles and hides, the most important of which are those at BAMHNIDIH, BILASPUR, GAINARI, BALODA, TAKHATPUR and CHAMPA. Gram and ghee are imported from northern districts, salt from Ganjam, and tobacco from Bengal and Madras for local consumption. Piecegoods, sugar, salt, etc., are also imported.

BILASPUR, the headquarter town, has a population of 31,374. It is a station on the B. N. Rly, 776 miles from Bombay and 445 miles from Calcutta. It is the headquarters of the coolie recruiting agency for Assam in C. P. The weaving of tassar silk and cotton cloth are the only industries of the town.

"Careers of Agents and Middlemen" A reliable guide on the functions, Scopes and qualifications of Agents and Middlemen, Price Re. 1/4.

BHATAPARA and AKALTARA are the other collecting centres in the district

Cattle markets are held at BAMHNIDIH and KOTMI Cattle from distant parts of the province, are brought for sale While the former is about 11 miles from Champa and 3 miles from Paraghat Railway Station (B N Ry), the latter is 6 miles from Akaltara

Fairs.—Annual fairs are held at Kadamal, Pittapuram and Sheorinarain where there is good sale of grains and domestic utensils of bronze and brass.

#### BULDANA DISTRICT.

BULDANA district has an area of 3,772 sq miles with a population of 766,584 Annual rainfall averages 34.58".

The staple food grain is jowar. Cotton is the most profitable crop and is widely cultivated, wheat, bajra, gram, and oil seeds (269,694 acres) are also grown Groundnut is grown over 76,293 acres The principal trees are sal, ber, khair, chir and teak

Cotton cloth and blankets which have a large local sale are woven but the principal industry is the preparation of cotton for the market and there are several ginning factories and cotton presses

The principal exports are raw cotton, oil seeds, grains and pulses and the chief imports are grains, pulses, coal, coke, sugar and salt The main trade is with Bombay The important centres of local trade are the little Pargana villages where weekly markets are held

The headquarter town of BULDANA contains a population of 7,504 and is not important industrially or commercially KHAMGAON (population 23,462), a station on the G I P Ry, is a big cotton market Cattle are sold here JALGAON has a population of 10,463 and is a cattle mart Other markets are SHEGAON (14,669) and NANDURA (11,212), MALKAPUR (17,565) and CHIKHLI (1,041). G I P. Ry, and the Godavari Valley Railway take part in carrying goods

Fairs.—At Pimpalgaon Devi, in Malkapur taluk, 15 miles, South-West of Malkapur, January, at Dhanora, in Jalgaon taluk, 5 miles West of Jalgaon and 18 miles North of Nandura, February and March, at Sonala, in Jalgaon taluk, 15 miles East of Jalgaon and 22 miles North of Shegaon, November, at Deolgaon Raja, in Chikhli taluk, 49 miles South of Buldana on Jalna Road, October and November, at Mayamba, at Mohoj in Chikhli taluk, 17 miles South-West of Buldana, February, at Mola, in Mehkar taluk, 8 miles North-East of Mehkar, September

#### CHANDA DISTRICT.

The CHANDA district (area 9,217 sq miles, population 8,75,440 languages—Marathi, Telugu, Gondi, Hindi, Urdu, Marwari, Madia, Gujrathi and Koshti) is thickly wooded The forest products are teak (plentiful), sal, bija sal, roha, kodan, haldi, semul, mahuwa, dhura, tendu, garal and palas The annual rainfall averages about 51".

The crops grown are wheat (67,182 acres); jowar (2,90,866 acres); linseed (71,921 acres), pulses (1,25,275 acres), rice 3,37,109 acres) in the Central and eastern parts, cotton (55,880 acres), gram (15,538) acres, sesamum (48,378 acres), is also grown and condiments and spices are grown over (16,546 acres)

There are 5 coal mines, one at BALLARPUR, one at GHUGUS, 2 at CHANDA (The Mahakali coal Mine and the Hindustan Lalpeth colliery) and one at MAJRI Output of coal in these mines in 1941 was 2,36,105 tons Iron ore occurs plentifully in the district. There are also white and yellow ochre mines White clay is used in manufacturing potteries Sand stones are available in ISAPUR Iron is at

"Careers of Agents and Middlemen" A reliable guide on the functions, Scopes and qualifications of Agents and Middlemen, Price Re. 1/4.

present worked by country methods in small quantities at 2 places in PALASGARH and GEWARDHA zamindaris. Building stones are found in stone quarries at many places. Tassar silk worm is propagated. Silk cloth for daily use is manufactured at several places. Weaving of cotton cloth with silk border is done on a large scale at CHANDA, CHIMUR, NAWARGAON, ARMORI and NERI.

Brass and copper vessels are made at CHANDA and NERI and glass bangles at BHADRAVATI and GARCHIROLI. Good lacquered ware is made at POMBHURNA. There are 5 cotton presses, 9 ginning factories, 1 saw mill, 1 match factory, 5 oil mills, 1 rice mill, 1 pottery works and 1 electric power house in this district.

The exports are by rail and include all seeds, timber, hides, horns, cotton and pulses, linseed, til, castor and mustard and fire wood. Rice is carried by carts. Poha (parched rice) is also exported in large quantity from the Shankapur tract of the Wardha tahsil towards Nagpur by carts. Other exports are cotton, teak and wood in increasing quantity from ALLAPALLI and bamboos, gum, myrobalans, lac, grass, charcoal and mohuwa flower to Wardha and Berar. The imports are salt, sugar, potatoes, thread, piecegoods, metal and kerosene oil.

CHANDA town (population 35,738) is the biggest town and trading centre in the district. WARORA town (population 9,547) the second important trading centre of the district is the station where bulk of the products from Yeotmal district in Berar reaches the railway.

Weekly cattle markets are held at CHANDA, RAJGARH, MADHERI, JAMBULGATA, WARORA, GANGALWADI, NAWARGAON, SINDEWAHI, KURKHEDA, ARMORI, GARCHIROLI and CHARGAON.

The district is served by the Wardha-Chanda extension of the G I P Ry and Nagpur-Chanda narrow gauge section of the B N Ry.

**Fairs:**—List of important annual fairs all religious in character as follows—Ghodajatra-Chimui, February, approximate attendance 10,000, Mahasheoratra-Markhanda (on the bank of Wainganga river) March, attendance about 15,000, Mahakali-Chanda, April, attendance about 4,000, Wardha (on the bank of Wardha river), November, attendance about 6,000.

### CHHINDWARA DISTRICT.

The CHHINDWARA district contains an area of 7,794 sq miles and a population of 967,004 persons, languages, Hindi, Gondi, Marathi and Urdu. The annual rainfall is about 43".

There are extensive Government and Jagiri forests containing timber such as teak, sal, shisham and anjan besides ordinary wood, e.g. bija, tinsa, satkata, salhe, so also bamboos. Gum is extracted from salhe and kullu trees. Fruit trees commonly found are Mahua, Tendu, Achar, Mango, Tamarind and Harra. Lumbering is an important industry, large quantities of props being required for the coal mines in the district. Main centres of timber trade are BHIMALGONDI, RAMAKONA and KURAI. Charcoal is also prepared and exported to Bombay from NAYAGAON and other places.

The principal crops with their areas in acres are wheat (379,184), juar (345,138), cotton (46,751), gram (114,526), pulses (98,567), maize (37,213), kodo-kutki (253,478), oilseeds (221,360) such as til, jagnl, linseed, etc and rice (151,641). The district is also noted for production of vegetables and oranges on a large scale.

The district is famous for coalfields around PARASIA, JUNNORDEO, HIRDAGARH, in the valley of the Pench River. The amount of coal extracted for the year 1939 was 1,387,847 tons. Manganese is found at KATCHHIDHANA and GOWARI WADHONA, gold washings

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## MARKET PLACES OF CENTRAL PROVINCES 511

in PACHDHAR and BAWANTHERI rivers, chalk and hard stones at CHHAPARA and lime stones at NAYEGAON and SARNA Cotton weaving is carried on at LODHIKHEDA, PANDHURNA, MOHGAON, CHHINDWARA, SEONI, BARGHAT and CHHAPARA Weaving of coarse blankets is carried on at PARADSINGA, BERDI, LODHIKHEDA and ROHNA Crude tanning and shoemaking is carried on at SARNA CHHINDWARA, LODHIKHEDA and PANDHURNA Rope is made from hemp near CHHINDWARA Brasswares are made at LODHIKHEDA, CHHINDWARA Basket making, oil crushing, gurmaking, butter and ghee making are also carried on in scattered places

The important Weekly Markets are held at Bhaironganj, Barghat (rice), Gangerus Ghansoie Chaurai, Chand, Chhindwara Chandameta, Jamai (in mining area), Umranaia, Rama-kona (gram), Lodhikhara and Pandhurna

The principal exports are wheat, cotton, rice, oilseeds, sunn hemp, potatoes, green vegetables (to Nagpur) and oranges, other articles of trade being timber, hides, horns and minor forest produce such as harra and chiranj The chief imports are salt, sugar and manufactured goods generally

The chief towns in the district are —

CHHINDWARA (population 17,080), the head quarters of the district and the exporting centre for vegetables

SEONI (population 16,081), PANDHURNA (population 11,570) are the collecting centres for cotton and oranges

At BORGAON a cart (Chhakra) race is arranged by the local malguzaia every year in the month of January and 1,000 to 1,500 pair of bullocks are brought for competition

Fairs.—The famous annual fairs are held at RAMAKONA and PANDHURNA on the 6th day after "Holi" and the second day after "Pola" festivals respectively The former lasts for 3 days and the latter for a day 10,000 to 15,000 people assemble at these places Karirai on the Kulbehra river and MAHADEO (near Pachmarhi) on the border of Chhindwara and Hoshangabad districts are religious fairs which are held on Kartik Purnima and Sheoratri festivals respectively The Mahadeo fair attends a big gathering of 30,000 to 40,000 people Mundara and Kothighat religious fairs in the Seoni sub division, which are held in Kartik for 15 days each, are also of some importance

### DRUG DISTRICT.

DRUG (area 3,807 sq miles, population 9,28,851) consists of a long strip of land running from north to south The average annual rainfall is 48" Iron ore is available in plenty Potstone is also found

The principal crops are rice (804,513 acres), total oil seeds 178,422 acres), condiments and spices (21,036 acres), and pulses 926,371, acres) Fruits and vegetables are grown over 15,750 acres.

DRUG TOWN (population 16,766) —The bell-metal industry is famous Cotton cloth is woven here for local use The town has a good trade in betel-leaves It is situated on the main line of the B N. Rly, and contains the ruins of the mud fort which is of great antiquity.

The district is served by railways and has a network of roads

### HOSANGABAD DISTRICT

THE HOSANGABAD district (area 4,922 sq miles, population 8,23,230, language, Hindi) has an average rainfall of 50". The chief articles of forest produce obtained from extensive Government forests are teak, timber, bamboos, charcoal and sabai grass There are Govt.

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timber depots at TAKU, TIMARNI and KHIRKIYA stations on the G I P Rly. at which monthly auction sales of teak timber are sold.

The chief crops grown are wheat, grains and pulses, gram, sesamum, kodan and kutki. The betel vines of SOHAGPUR (population 8,595) have good reputation. Cattle are imported here from the Indian States. Cloth weaving by handlooms is practised at SOBHAPUR and NAHARKOLA for local use. There is tassar silk weaving and dyeing industry at SOBHAPUR. Nut-crackers (ornamental) and bamboo walking-sticks are made and exported from HOSANGABAD town. There are also cotton ginning and pressing factories.

The chief exports are wheat, til, linseed and cotton, teak timber (to Bombay Presidency, Central and Northern India), charcoal (to Bombay and Poona), ghee (considerably exported), honey (from Pachmarhi), charwal (from Itarsi), building stone and brass vessels (from Handia), and mohua (to Khandwa). The imports are salt (from Sambar and Ahmedabad), sugar (from Mirzapur), gur (from Betul and Berar), tobacco (from Muzaffarpur), rice (from Chhattisgarh). The chief weekly markets are at ITARSI (population 15,322), BABAI, HANDIA, SOBHAPUR, and BANKHERI.

HARDA (15,130) 48 miles from Itarsi Junction on the G I P Rly, is a market for grain and cotton. SOHAGPUR, a station on the Itarsi-Jubbulpore branch (G I P), is a good market for jungle produce and has a sericulture house. The chief timber markets are at SOHAGPUR, ITARSI, TAKU, BANAPURA, TIMARNI, RAHATGAON, HARDA and KHIRKIYA. The traffic is rail and road borne.

HOSANGABAD Town (population 13,297) is situated in a picturesque position on the Nalbada. Brass utensil and bamboo walking sticks are made. Excellent building stones are available from a quarry in the vicinity of the town.

PIPARIA is an important trade centre and provides market for grains exported from Bhopal State by the Sandiaghat. About 200 carts come to the market daily into the market. There are 3 dal factories and 2 oil mills. Weekly markets are held on every Sunday and Tuesday.

NARSINGHPUR (population 12,896)—The chief crops grown here are wheat, gram, til, rice, jowar, cotton, kodan, linseed, etc. There is a coal mine at MOHPANI.

GADARWARA (population 10,446) is an important centre of hand-weaving and dyeing and a big grain market. There are some 'dal' mills also. Brirs are also manufactured. CHICHELI has an industry of brassware. There is also a ginning factory at GADARWARA. BABAI has a timber and charcoal depot.

ITARSI TOWN (population 15,320) is an important railway junction and is fast growing. It has a big oil mill.

The chief exports are wheat, oil seeds, gram, ghee (to Calcutta), hides and bones (to Bombay). The imports are rice, sugar, kerosene oil, cotton cloth and gur.

The very important railway junction of Itarsi is situated in the district; and from it there are direct communications with Bombay, Calcutta, Delhi and Madras. P. W. D. metalled roads are not adequate. The forest tracts are however well provided with unmetalled roads constructed by the Forest Department.

Fairs are held at BARMHAN, BAREHTA and SANKAL.

#### JUBBULPORE DISTRICT.

The JUBBULPORE district (area 3,918 sq miles; population 756,346, languages, Hindi and Urdu) has plenty of mango, bel, tama-

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rand, guava, mohua and other fruit-bearing trees. The timbers of the forests are teak, sal, haldu, tendu, or ebony and bamboos. Peaches, pineapples, excellent potatoes and vegetables are also grown. The average annual rainfall is about 60".

The crops are wheat, rice, gram, sesamum, jowar, oil seeds, etc. Betel vine gardens also exist in a number of places near JUBBULPORE CITY and BILHERI. Fruits and vegetables have a good local demand.

Iron ores occur and are worked to a small extent at JOHLI and SIHORA. Manganese ores occur at GOSALPUR, SIHORA, KHITOLA. Copper ores also exist and the limestone deposits at MURWARA are worked. Bauxite and red ochre are available. Excellent ornamental marbles are found in the Marble Rocks. Steatite is also available.

Cotton weaving is carried on at GARHA and MAJHOLI (coloured series). Cement factories have been started at KATNI, KYMORE, MEHGAON, and JUBBULPORE. Glass, lime and potteries and fire bricks are made at JUBBULPORE and PANAGAR. KATANGI produces glass vessels. There are gins and presses and a weaving mill besides the gun carriage factory and arsenal. Wire-netting, thick bedding cloth, weaving of cloth for pillows and mattress cases, net money bags and carpets are some of the jail industries of the district and find a ready market. Bidi industry is now well established.

The principal exports are wheat and oil seeds, hemp (to Calcutta and Bombay). Ghee and forest products are sent from Jubbulpore in large quantities (to Seoni and Mandla). Hides, horns and dried beef are largely exported. The chief imports are salt (from Sambhar), sugar, guni, vegetable oils, cotton cloth, dyes, glass bangles, etc. Weekly markets are held at PANAGAR, BARELA, SHAHPURA, PATAN, BILHERI, KATANGI, SILONDI, UMARIA.

KATNI is an important trade centre for ghee, wheat, bronze utensils, Indian shoes, and red stone. It is the centre of cement industry. Bauxite is available near about. Lime stone suitable for lime burning is met with.

SIHORA ROAD (on the railway line from Jubbulpore to Katni), has a population of over 6,000. It is a municipality but levies no terminal taxes.

JUBBULPORE (population 97,468), the chief town and administrative headquarters, lies on the junction of G. I. P. and B. N. Ry. lines. It is 616 miles from Bombay and 784 miles from Calcutta.

Fairs.—Religious fairs are held at different sacred places on the Narbada. BHERAGHAT and KUMBHI are important.

#### MANDLA DISTRICT

The MANDLA district (area, 5117 sq. miles, population 445,766, languages Hindi and Gond) has an average rainfall of about 62".

Chief crops are wheat, pulses, rice, kodan, kutki, gram, maize, etc. Bell-metal vessels and lac bangles are made.

The chief exports are wheat, rice, oilseeds, sunn-hemp, ghee, lac, gum and harra. There is sufficient pasture ground available throughout the district.

The imports are salt, sugar, kerosene oil, pulses, arhar, spices, vessels of brass and glass and silk and cotton cloth. The chief trade centres are PINDRAI, NAINPUR, BAMHNI and internal trade is carried on in weekly village markets by carts and pack ponies and bullocks. MANDLA (population 12,214) is also a centre of trade.

B. N. Ry. passes through the district.

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**Fair**—A fair is held at HIRDENAGAR in the month of Falgun for a month which is also a chief cattle market

### NAGPUR DISTRICT.

The NAGPUR district (area 3,834 sq miles population 1,061,924, language Marathi) has an annual rainfall of 36". The forests on the Satpura hills produce sag, achar, tendu (on heavy soils) and satin wood. Mango, mohua, tamarind and date-palms are common in the open country

Principal crops grown are jowar, others are wheat, pulses and linseed. Cotton cultivation (156,710 acres) is gradually decreasing. Condiments and spices are grown over 14,646 acres. Cattle are imported as there is scarcely any grazing ground.

Deposits of manganese occur in several localities (in Ramtek Tahsil). The lameca occurring in Nagpur constitutes an excellent regstone

The district is noted for its orange gardens and for the cotton and silk fabrics. There are also two small glass factories and a match factory. Weaving of cotton cloth is the home industry at NAGPUR and UMRER, gold and silver thread comes from Burhanpur. Silk comes from Bengal and China and tassai from Chhattisgarh. A small pottery factory has been recently established.

The chief exports are raw cotton, cotton seed, linseed, oranges, wild plum and betel-leaf. The imports to Nagpur district are rice, timber and bamboos (chanda sewi, etc.), cotton and grain, vegetables, sea-salt, sugar, gur, kerosene oil, woollen and iron goods.

KAMPTEE (population 22,246) is the largest weekly market. KAMPTEE CANTONMENT population 4,733 is situated to the west of Kamptee town. Other leading markets are GAORI and KELOD (for grain and timber), MOWAR (grain).

NAGPUR (population 3,03,483). NAGPUR is the capital town of the Central Provinces and Berar and leading industrial and commercial town in Central India. Its trade is chiefly confined with Bombay. It is situated at the junction of two important railways, namely the Great Indian Peninsula and the Bengal Nagpur Railways. It owes this influential position chiefly to its cotton trade.

The chief items of commerce relate to timber and firewood, kerosene oil, imported piecegoods, leather goods, food stuff, tobacco, aerated waters and ice. There are oil mills near the railway station. Passing mention may be made of printing presses, ice factory, etc. A number of cotton mills have been started in the town.

The chief imports to the place from the interior are lac, honey, cotton, myrobalans, dhuna, hill-sticks, orange, wax, etc. These articles are exported to Calcutta, Bombay, Madras and the up-country towns. Railway shippers made from the C. P. timbers, seti-mustaid seed, mohua and its seeds, and sesamum are exported in large quantity from this place. Goods are generally exported by rail.

Other centres of trade are KHAPA (9375), MOWAR (5432), KATOL (1,21,00), 36 miles from NAGPUR by road, and SAONER (8527), UMRER (19,364), 33 miles from NAGPUR, exports silk bordered dhotis to KHANDESH and Nizam's dominions.

**Fairs**—The following are religious fairs. In NAGPUR tahsil: Digdoh, Chaitrapurnima, 5 days, Koradi, Chaitra purnima to Wadya 5th, Vehad, Chaitra Shudha 10, 11 and 12, Degna (pinjari), Chaitra 1 day, fag Wadya 5, Mahurzari, Chaitra 5 and 9, 2 days, Asaiwade, Sheoratri, 1 day, Riddhora, Margashirsha, S, 14, 1 day, Chargaon Mahashivratri, 2 days, Nand (near Kinhi), Ramnawami, 1 day, Kinhi, Badrapad s 2, 1

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day, Sawanga, Fag S 15, 1 day, In RAMTEK Tahsil Chogra near Pench river, Maghwadya 14 and 30, 2 days; Mahuli, Shivrati, 2 days; Kondhali, Chaitra W 1 to 15, 15 days, Sukali, Chaitra, S9, 1 day, Irshi, Sankranti January Padwa, Ambala, Kartik Purnima In UMRER tahsil: Bela Margashirsha 15, 1 month, Tarna, Shivratri, 10 days; Ambora, Kartik S, 15, 1 day, Dhaparla, Chaitra, S9, 9 days; Ambohara, Margashirsha, S 15, 2 days and Jeshta s 10, 1 day, Pular 10 miles from Jawali, Chaitra S 15, 1 day, Benela, Kartik, S 15, 1 day In KATOL Tahsil Paradsinga, biweekly thursday and Sunday, Bhishnur, Chaitra, W 1st Sunday 1 day, Kacharu,—Saonga, Shivratri, 2 days, Dodki, 2 days; Khapri, 2 days, Jalalkheda, 2 days, Purangundi, 2 days, Kinki Dhoda near Kondhali, 2 days, Mendhla, 2 days, Chicholi, Fag S. 6, 3 day Jambhuldhora, Mahashivratri, 1 day, Agra, Fag W. 6, 1 day, Kharsohi, Fag W 12, 1 day, In SAONER Tahsil—Adasa, Pouch W 4 Heti (Kheda), Chaitra S 15 to W 5, 6 days, Dhapewada, Ashadh S 11 to 15, Kartik W 2 Nandagamukh, Kartik 15, 1 day; Deobardi (Mohpa) Margashirsha S 5 2 days.

A large fair is held at RAMTEK (population 8,934) in November and other religious fairs are held at AMBHORA, KONDHALL, ADASA and DHAPEWADA in other tahsils of the district

Cattle fairs are—Shulli, Sankrant, January, Bahmni, Sankrant—January, Bahmni, Sankrant—January, Bhojapuri, Sankrant, January 1 day

#### NIMAR DISTRICT.

The NIMAR district (area 4,227 sq miles, population 5,13,243, languages, Hindi and Marathi) has an average rainfall of about 32". The local language of Nimar District is Nimari which has no written script The headquarters of the district are situated at Khandwa

The chief crops grown are cotton, jowar, pulses, wheat, ganja, betel vine, pomegranates (at NIMAR). Working and transport of raw cotton is the chief industry, besides, there are coarse cotton weaving and ginning and pressing factories at KHANDWA, LALBAGH, BURHANPUR, NIMARKANDI, JAHAR and PANDHANA Timber is sold at SULGAON, and HARSUD

The chief exports are raw cotton, seed, til, jowar, sunn-hemp, timber, bamboos, flowers (mohua flowers), and groundnuts The imports are salt, gur, tobacco, kerosene oil, building and paving stones, etc, etc

KHANDWA, (population 37,725), the Sadar Station, is situated on the G I P Rly, 1,256 miles from Calcutta A Jain temple has been erected at a cost of Rs 75,000 There is a good metalled road between Khandwa and Madhata At MOGHAT, 4 miles from Khandwa Town, there are water works supplying water to the Town

BURHANPUR (population 54,072) is a great commercial centre for grain and cotton and manufactures The town is 647 miles from Delhi and 45 miles from Nimar There is also an oil mill The export of silk cloth has ceased from Burhanpur, but cottage weaving industry with looms driven by electric power has taken its place Textile and weaving mills called "The Burhanpur Tapti Mills" have also been established at Burhanpur. The city is supplied with pure water partly by a historical system of water-works, colloquially known as "Khuni-bhander," exhibiting considerable skill in construction The Railway Station is 3 miles from the Town, connected with a metalled road About 14 miles from Burhanpur there is the fort of Asirgarh on the Khandwa-Burhanpur road

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G I P and Rajputana-Malwa Rlys cross the district which is also provided with good roads.

**Fairs.**—In **KHANDWA** Tahsil Nahalmadi, Sangmeshwar Fair in honour of Lord Shanker, March, Kapuria, December, Boikheda, Data Sahab Mela, March, Ambapat, March, Mandhata in honour of God Onkareshwar, Mahasheswatra (Nov), and Tilpuri, Purnima (March), 1 and 3 days, respectively, Cattle, Ramer, April; Pabasi, April In **BURHANPUR** TAHSIL—Sukta, April, 3 days, Shahapur, November, day following Dewali, Ichhapur, April, Lokhandia, April, Dhar, December In **HARSUD** TAHSIL—Singajee, middle of October, 10 days, Cattle fair, Malgaon, December, 10 days, Cattle fair In **MUNDI**.—Both weekly market and cattle market are held every Thursday Timber is offered for sale in these markets

### RAIPUR DISTRICT

The **RAIPUR** district (area 11,885 sq miles, population 1,526,803, language, Chhatisgarhia) has an average rainfall of 55" Teak occurs here, sal, karia, bijasal, babul, mohua and grass are also abundant

The chief crops are rice, pulses, linseed, kodan, urid, mung, math, gram, sesamum, of which linseed is the most important in the province Fruits and vegetables are grown over 20,000 acres There is much difficulty in transporting forest products, though teak, sal and bamboos are abundantly found

Raipur sand stones are used for buildings

Tassar silk is woven as also coarse cotton cloth; ornaments and vessels of bell-metal are made at **DRUG**, **DHAMTA**, **NAWAPARA** and **RAIPUR** Glass bangles are made at **SHINGA**, **NEORA** and **KURRA**. Iron ore is found and smelted Cotton gins and presses exist

Exports are rice, wheat, til and linseed oil cake, teak, sal, bijasal, lac, mohua and myrobalan The imports are salt, sugar, guni, (Bastar), cotton thread and cloth, metals, brass vessels and hardware

A large weekly cattle market is situated at **BALODA** Bazar near **SHIMOGA** Other centres of trade are **BARONDA**, **BAREKEL**, **UTAI**, **RANITERAI**, **GANDAI**, **ARJUNDAH**, **DRUG**, **KURUD**, **DHANTARI**, **NEORA**, **BHATAPARA**, etc

**RAIPUR** (population 45,390) is a great railway junction (branch **DHANTARI** with a population 11,050 and **RAJIM**) Brass making, lacquering wood, cloth weaving and mat-making are the industries Oil mill and cotton ginning factories are situated here There is a small museum

B N Rly. passes through the district.

### SAUGOR DISTRICT

The **SAUGOR** district (area 6,671 sq miles, population 9,39,068, language, Hindi) has an average rainfall of about 48". Teak is available on hill sides

The chief crops are wheat, gram, jowar, sesamum, kodan, cotton, rice, etc Betel-vine gardens are found at **SAUGOR**, **BALEH**, **SAHAJ-PUR**, **JAI-SINAGAR**, **DAHOM**, **HINDORIA**

Weaving and dyeing (at **SAUGOR**, **REHLI**, **ANANTPURA**, **DEORI**, **GOURJHAMAR**, **GARHAKOTA**), brass working (at **DEORI**, **KHURAI** and **MALTHONE**), iron work (at **RAHATGARH**), gold and silver works, glass works, bell-metal, etc are the chief industries

The exports are grains, til and linseed, forest products, betel leaves, skins and horns of antelopes The imports are cotton piece-goods, kerosene oil, metals, hardware, groceries, spices, country cloths, sugar, tobacco, salt, etc

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## MARKET PLACES OF CENTRAL PROVINCES 517

**SAUGOR** (population 63,933 including the cantonment)—Trade of the district is concentrated at this place. SAUGOR and SAHAPUR are the important trade centres in the district.

**BINA JUNCTION**, on the G I P Rly, main line, is a big grain market, and wheat and gur are the chief exports from KHURAI, a railway station on the Bina-Katni, section of the G I P Rly.

**DAMOH** (population 26,799), the crops raised here are wheat, grain, linseed, rice and kodan. Jowar and til are also cultivated to a very small extent. Teak and sal are the chief timbers in the reserved forests. There are sufficient grazing grounds, and fodder grass is sold. Iron ore has been found near the Panna State border and building stone is also available.

Country cloth is woven at DAMOH and the chief centres of the industry are at BANSA, RANEH KALAN, DAMOH, HINDORIA, BANSATAR-KHEDA, SITANAGAR, ANANTPURA and HATTA (saris). Dyeing by indigenous process is also carried on. Household vessels are made at DAMOH and HINDORIA. Paper is made by hand at PANCHAMNAGAR.

The particular exports of DAMOH are wheat and oil seeds. It sends teak and bamboo to Northern India as also lac. Ghee is largely available and has a good trade with Calcutta. The principal imports are piecegoods (from Bombay), kerosene oil, gur (N India), sugar, tobacco, copper vessels, etc.

Other places of trade are KHURAI (8,509), DEORI (6,917) and ETAWAH (8,984) and SAHAPUR.

The district is well served by the G I P Railway.

**Fairs**.—Only cattle fair is held annually about the months of February and March at Garbakata in Rehli Tahsil of the district.

### WARDHA DISTRICT.

The **WARDHA** District (area 2,428 sq miles, population 516,106; languages Marathi and Hindi), lies at the foot of the Satpura Hills adjoining Berar.

The crops raised are cotton (3,00,724), jwar (3,71,041), wheat (1,13,295), oil-seeds (58,104), sugarcane; turmeric grows at WAIGAON (Hinganghat Tahsil), there are numerous orange gardens and banana plantations in Arvi Tahsil. Betel leaves grow at Arvi, Jalgaon and Ashti.

There are two weaving and spinning mills at HINGANGHAT and one at PULGAON. There are numerous ginning and pressing factories in the district. A tannery has been started by the Go-Sewa Charnmalaya at NALWADI about a mile from Wardha town on the Wardha Nagpur road. Bone manure is also manufactured there. The All India Village Industries Association has started paper manufacture. At numerous centres hand-woven khadi is made of hand-spun yarn. NALWADI and KHARANGNA are important centres of Khadi manufacture. A dyeing factory has also been started at Wardha.

Chief exports are cotton, cotton seed, linseed and its oil, groundnuts (to foreign markets), cloth and yarn (from Hinganghat and Pulgaon), teak, plantains, oranges and chillies. The chief imports are cotton piecegoods, kerosene oil, salt, silk cloth, hard-ware, wheat and rice.

**HINGANGHAT** (22,601) an important industrial centre. Cotton and cloth are the chief exports.

**WARDHA** (19,571) head quarters of the district, an important cotton market, numerous ginning and pressing factories. The town has come into great prominence lately as the head-quarters of Mahatma Gandhi, and of various All India movements in-

**COMPLETE TAILORING**.—A guide to cutting and tailoring of Gents', Ladies' and Children's garments Rs. 3/8, Industry Book Dept, Calcutta.

## 518 INDUSTRY YEAR BOOK & DIRECTORY, 1943

spired by him The All India Village Industries Association is located here and is carrying on research in village industries such as Paddy-husking, Flour-grinding, Palm gur and Sugar making Oil-pressing, Bee-keeping, Paper-making and Soapmaking out of indigenous saji matti The Goseva Charimalaya, an institute for improved methods of tanning on a cottage basis of hides of non-slaughtered animals is located here Profitable use of various parts of the carcass, as well as leather work are carried on and taught.

Another important trade centre is DEOLI (6,209).

PULGAON (7,845) has an important cotton market The C. P. Light Railway connects it with Arvi

ARVI (16,293) has several ginning factories and an important cotton market It is connected by first class roads with Wardha, Amraoti and Nagpur It has a good gravitation reservoir It is connected with Pulgaon by road and railway It has a cattle market also

Cattle markets are held at WARDHA, DEOLI, SELU in the Wardha Tahsil and HINGANGHAT and SAMUDRAPUR in the Hinganghat Tahsil

Fairs: Fairs at Ghorad, Dhaga, Sonegaon Abaji, Girad and Kapsi are important

The G. I. P. Rly runs through the centre of the district A branch line runs from Wardha to Warora, which is 686 miles from Calcutta via Midnapur and Nagpur.

### YEOTMAL DISTRICT.

The YEOTMAL district (area 5,219 sq miles Population 8,87,788) has an average rainfall amounting to about 50".

The chief crops grown are jowar, cotton, and various pulses The forest products are timbers, fuel and fodder Pasture land covers about 1289½ sq miles

Coal is mined here to a small extent, the output in 1941 being 34,139 as against 34,981 tons in 1940 Lime stone is found in WUN talug.

Ginning and pressing of cotton, weaving of khadi, saris and turbans and cotton printing are the industries of the district

The exports are raw cotton, oil seeds, cereals, pulses etc The chief imports are cereals and pulses, salt and sugar which come mainly from the neighbouring districts and Bombay. Goods are carried by the C. P. Rly via Murtizapur G. I. P. Rly. which is reached by YEOTMAL Dhamangaon Road YEOTMAL is the chief centre of cotton trade and the general trade of the district WUN, DARWHA and DIGRAS are also trade centres in the district which contain cattle markets. Weekly markets are held in the paragana towns

YEOTMAL (population 26,571) the district headquarter is a Municipality and contains several ginning and pressing factories. The town is connected through Dhamangaon with a metalled road 29 miles away on the G. I. P. Rly and also with the C. P. Rly. via Murtizapur G. I. P. Junction Yeotmal, Darwha, Digras and Pusad towns were connected by C. P. Rly line till 1940 but the line from Darwha to Pusad has since been removed and the traffic is done by motors

Trade centres are WUN (12,228), PUSAD (11,367), DIGRAS (10,707), PANDHARKAODA (8,387).

Fairs:—List of fairs held in the YEOTMAL district —Khatashwar fair, Jodmoha, Kartik Sudh 15, Datta fair, Dattapur, Margashirsh Sudh 15; Wun fair, Wun, Magh Sudhi 15 to Falgun Sudhi 15, Ramtirth fair, Ramtirth, Magh This fair is held about 2 weeks, Dhanoda fair, Dhanoda, Falgun Vadya 5, Kharabi fair, Kharabi, Magh Vadya 14, Wanegaon fair, Wanegaon, Chaitra Sudhi 15 Five more fairs are held at ANJI, JAGJAI, WAI, PIMPALKHUTI and TADSAWALI villages

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## MARKET PLACES OF ASSAM

**T**HE Province of Assam can be topographically divided into three natural divisions; the Surma Valley, the Brahmaputra Valley and the intervening range of hills. The Surma Valley is a flat plain about 125 miles long and 60 miles broad and is shut on both the sides by ranges. The Valley of the Brahmaputra is an alluvial plain about 500 miles long and 50 miles broad. The total land consists of the Jaintia, Khasi and Garo Hills, stretching from east to west and of the Lushai Hills in the south. The Province has an area of 26,000 sq miles and a population of 10,205,000.

**Climate:**—The climate of Assam is cold and extremely humid. But the temperature is never extreme. Average annual rainfall is abundant but varies from place to place according to height. Sylhet 57", Silchar 124", Cherrapunji 500", Goalpara and Lakhimpur 115" and at other places it is about 80" on the average, but as low as 68" is not uncommon. Storms occur during the spring months and the Province is often subject to earthquakes.

**Soil.**—The soil of Assam in general can be taken as a loose sandy loam with a thin layer of humus at the top. Humus is the black substance formed from decayed organic matters, leaves and branches. The presence of humus in a loose soil imparts fertility to it and supports a luxuriant vegetation. The composition of the soil in the slopes of the hills varies in its abundance of ferruginous and calcareous sand stones,—the latter being more marked in area near Cherrapunjee. The plains of the Brahmaputra Valley consist of fertile alluvium and the soil is similar to that of the Indus or the Gangetic plains of the Punjab and Bengal. Of the total area in Assam 6,789,000 acres were under cultivation during the year 1940-41 of which 965,000 acres were irrigated. Area of land lying fallow is 2,134,000 acres, forest 4,305,000 acres, culturable waste 4,577,000 acres.

**Natural Resources**—In the Surma Valley, rivers rise from the Naga hills and flow south through Manipur. Slender palms, feathery bamboos, and broad-leaved plantains are seen everywhere in the villages. Throughout its length the Brahmaputra Valley is enclosed by marshy land covered with thick grass jungles interspersed with cultivation here and there. Rice is grown, forest timbers are felled and tea gardens are opened. There are large areas of waste land, swamps, forests and hills, and in some parts of the valley population is beginning to press upon the soil. The slopes of the lower hills are clothed with forest and the rivers pass through gorges of exceptional beauty. Ranges of hills comprising the Naga, the Jaintia, the Lushai, etc., are broken by sharply segregated ridges and deep valleys, all of which alike are covered with forests. The State of Manipur, however, though situated in this portion is a fertile valley surrounded by a range of hills.

The uncultivated portion of the Assam Valley is usually covered with forests or with big grass and reeds (ikra, nal and khagri). The trees found are sal but in the west amoora, michelia, magnolia, ficus and mesua are common. Various kinds of palms, canes, tree ferns, bamboos and plantain trees are also common. The greater part of the Assam range is covered with dense forests or jungle and the most

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valuable timber tree in them, is sal. Others are tita sapa, jarul, stroemia, nathor, sam, gomari, khair, sisu and gunserai. Forests cover about 4 million acres. Lac and silk cocoons are collected from forests.

**Forests**—The total area of the reserved forests stands at 6,647 square miles and unclassified State forests 14,765 sq miles. The main output of the forests consists of timber, lac, sleepers and bamboo. Medicinal herbs are also available.

**Fauna**—Assam is full of birds of all kinds, the prettiest of which is the peacock. Black pheasants, jungle fowls, partridges (black and brown), floricans, imperial and green, pigeons are found in large number in these forests. That rare bird, the peacock-pheasant is seen in the southern slopes of the Khasia and Jaintia Hills and in the Garo Hills. In the beels and swamps, ducks of various kinds, teal and other game birds abound. Snipe, the most sporting game bird of India is found in marshes and low lands.

Elephants are found in the province in good number. Elephant catching is said to be a lucrative occupation. There is considerable trade in elephants, ivory and rhino horns.

**Crops**—The chief crops in the province of Assam are rice and tea. The two great alluvial plains of the Brahmaputra and the Suima are suitable for cultivation. Deep, soft, clayey loam is best suited for the cultivation of rice of various qualities which are grown over huge areas in the different tracts in district. Wheat and barley are grown on a limited scale in the Goalpara district. Jute is grown in Goalpara, in Sylhet and also in Kamrup. Linseed is grown in Sylhet. Garden crops include tobacco, several kinds of plantains, vegetables, palm, areca palm, pepper, and various kinds of spices. Jack fruits, mangoes, papayas, pineapples are grown. The Khasis export potatoes, oranges, pineapples, and leaves of bay tree, and cotton is grown by most of the hill-tribes. Cowdungs and sweepings of courtyards are used as manure to garden crops, sugarcane, jute and the nurseries. The great handicap to cultivation is absence of labour and many tea gardens are worked by indentured labour.

Area under jute in 1941 was approximately 356,000 acres, sesamum 23,000 acres, sugarcane 41,000 acres, cotton 41,000 acres, rice 5,426,000 acres, rape seed 287,000 acres, tobacco 15,000 acres.

**Minerals**—The minerals worked in Assam are coal, limestone and petroleum oil. Coal is found at MAKUM, and KHASI, JAINTIA and NAGA HILLS. The output in 1939 was 274,528 tons, of which the major part is mined in Lakhimpur. Limestones are found extensively on the southern face of the Khasi and Jaintia hills—from the Someswar River in Garo hills to that of the Hail river in the Jaintia. The centre of the trade is SYLHET. Petroleum is worked in the MAKUM FIELDS in LAKHIMPUR and also at some other places (MANIPUR, BADARPUR and BANAK in Cachar). Iron is worked to a very small extent in the Khasi hills. It is also found in Miku hills. Platinum has been found in the sands of the Dihing river and lead and silver are found in the Khamti hills. A new oil spring has been spotted near Sibsagar.

The existence of huge deposits of coal in various parts of Assam has now been established. Reserves of about 600 million tons in Namchik and nearby areas, over 500 million tons in the area south of the Garo Hills range, nearly 750 million tons in the areas in about Dairangagiri and nearly 10 million tons in the isolated and scattered coal-fields in the Khasi, Jaintia and Miku Hills, are stated to represent some of the untapped coal resources in the Province. Geologists compute that the reserves of coal average about 750 million tons each.

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in the Langim and Longstoin areas within a depth of 500 feet of the surface and probably over 500 millions tons in the area in the south of the Tura Range of the Garo Hills, west of the Chutmang mountain, at a depth of 200 to 1,000 feet of the surface. But the most important problem in this connection is the difficulty of transport.

**Tea Industry:**—The predominating industry of the Province is the manufacture of tea, both black and green. The number of gardens in Assam at the close of 1939 was 1,126 against 1,120 of the previous year.

The total area under tea during 1939 decreased from 438,972 acres to 438,272 acres.

The total outturn of tea in 1938 was 261,037,000 lbs of black and 809,000 lbs of green tea. Total output of tea during 1939 was 252,728,000 lbs of black tea and 572,000 lbs of green tea.

Nearly 28,900 labourers were recruited for tea gardens in Assam during 1938-39, according to the latest Annual Report of the Controller of Emigrant Labour in Assam.

**Irrigation:**—Total area irrigated during 1940-41 was 965,000 acres; of which area irrigated by Government canals is 228 acres and by private canals 562,000 acres, by tanks 1,000 acres, by other sources 402 acres.

**Factories:**—The number of factories in Assam is about 750. Of these seasonal factories number 645. There are 32 rice mills, 5 saw mills, 12 oil mills, 2 petroleum refineries and 638 tea estates. The average daily number of persons employed in the registered factories is 50,000.

Industries of the modern type including rice mills, oil mills, brick, pipe and pottery works at LEDO (Lakhimpur); paper pulp making at SILCHAR, kerosene oil tinning and packing at BAHADURPUR GHAT (Cachar), railway workshops at DIBRUGARH (Lakhimpur), TEZPUR (Darrang) and JORHAT (Sibsagar), petroleum refining at DIGBOI (Lakhimpur), engineering workshops at DIGBOI, RAHABARI, (Dibrugarh), MARGHERITA, TALAP, BARAHAPJAN, all in the Lakhimpur district.

**Cottage Industries:** The most common cottage industries of the Province are cotton weaving and sericulture. The cotton weaving industry of Assam exists in three distinct stages among the three different classes of the people. Among the progressive inhabitants of the Surma Valley, the industry may be said to be extinct, and there is little probability of its revival. Among the Assamese proper, it still holds an important position, even in the manufacture of the coarser cloths. It will probably be long before these are altogether superseded by imported fabrics.

Sericulture is practised on a fairly large scale. Muga silk worm is reared in Sylhet, Cachar and Kamrup and is woven into fabrics or exported to Calcutta and other markets. Endi silk was for long the monopoly of Assam but its rearing now extends to Eastern Bengal. The crops are usually reared from September to November and from February to March when the climatic conditions are considered ideal. Silk fabrics are woven both for home consumption and for sale.

Among other industries of the Province may be mentioned manufacture of brass and bell-metal articles, shoes, wooden utensils, wood carving, toy making, pottery, etc. Of the industrial arts may be noted jewellery and enamelling, ivory carving, embroidery and lac bangles. Handicrafts are mat and basket making, blanket and durri weaving, brush and comb making, cutlery, etc.

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The minor industries are burning of limestone, preparation of molasses and mustard oil, making of boats, canoes and tea boxes, the manufacture of earthen vessels and local jewelleryes. Other manufactures are iron work and rough pottery

The district of Sylhet is famous for lime, mats of bamboo and reeds, boxes and furniture made of reeds, bracelet of shell, and lac, agar or atta (a perfume from sap of agar tree), toys, fish-oil, dried fish and boat. There are several oil and rice mills at GAUHATI and in some other parts of the Province. There are saw mills and brick potteries in the Lakhimpur district. The chests are made from simul trees.

The fish industry is one of the most important of the indigenous industries of the province of Assam. It is still carried on in the old methods, either by individual fishermen, or by a combination of fishermen, working under a middleman, who takes the lease of a fishery, and supplies the boats and nets necessary for carrying on business, while the fishermen supply the labour. The industry obtains in several forms.—(1) Exports of fresh and salted fish, (2) Preparation of dried fish, (3) Preparation of fish oil, (4) Sale of fish manure. The possible by-products are fish manure, isinglass, fish skin and fins, preservation of fish may also be tried.

**Resources.**—Natural resources of Assam are most prolific. For instance, Khasi pines, Eucalyptus, Camphor, Cinnamon, Cardamom, Lemongrass, Geranium, Patchouli, Wintergreen, Chenopodium and numerous other valuable essential oil-bearing plants abound in Assam.

Assam possesses suitable wood for veneers for the manufacture of tea chests. Wood, bamboo, grass, hemp, etc., are extensively found in the forests of Assam. The extensive grass area lies in the angle made by the Brahmaputra and Manas rivers on each bank of the former opposite Goalpara and in the Barpeta sub division and in several centres of Surma Valley and Chittagong Division of the neighbouring province. Hides and skins are abundant.

**Timber.**—Oaks and pines which one usually associates with cold climate are represented in large number in the Assam Hills. The plains contain a bewildering variety of trees, shrubs and herbs. The giant Hollong tree (*Dipterocarpus pilosus*), the gigantic Hollock (*Terminalia myriocarpa*), the magnificent Sal (*Shorea robusta*) are objects of admiration to any casual observer. Assam forest produces Sissu (*Dalbergia sissu*), Khair (*Acacia catechu*), Cham (*Albizia leucacarpus*), Champa (*Michelia champaca*), Gamari (*Gmelina arborea*), Poma (*Cedrel toona*), Bonsum (*Phoebe Hainesianae*) and a host of other and ornamental woods. Agai wood (*Aquilaria agallocha*), the famous 'Aguru' of commerce is found in Assam, but the most important items of minor produce that yield large revenue are lac, cane, thatch, and bamboo mahals. The major part of Assam timber goes to Bengal, which is the chief market for Assam hardwoods. A few saw mills in Upper Assam manufacture tea boxes for the tea industry and a small quantity of bamboo chips are sent to paper mills in Bengal.

**Trade.**—The bulk of the trade, apart from tea, consists of raw products, due to the very undeveloped nature of the Province. The principal imports are generally cotton piecegoods and twist, husked rice, salt, sugar, kerosene oil, mustard and other oils, gram and pulses, tobacco and metals. The chief exports are tea, unhusked rice, oil seeds, coal, lime, rubber, timber, jute, raw cotton, lac, hides, oranges, etc.

The most important centres of trade are GOALPARA, BARPETA, GAUHATI, TEZPUR, NOWGONG, GOLAGHAT, JORHAT, DIBRU.

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GARH and SADIYA HABIGANJ, AJMIRGANJ, SUNAMGANJ, CHHATAK, BALAGANJ, SYLHET and SILCHAR.

The trade of Assam is chiefly with Calcutta and Chittagong by rail and steamer. The trade of the interior, which however is not considerable, is carried on by carts. Cattle, ponies, sheep and other livestock are generally brought to Assam by road.

Foreign trade is carried on with Bhutan, Towang and the tribes of the lower Himalayas. TEZPUR, LAKHIMPUR and SADIYA are the centres where rubber is brought by these people for sale who take away cotton, cloth, yarn and silk.

**Rail and River Borne Trade:—Imports**—Cement, coal, yarn, piece-goods, fruits dried, wheat flour, gunny bags and cloth, iron and steel bars, sugar, gur, tobacco.

**Exports:—**Paddy, rice, hide raw, jute, kerosene oil, rape and mustard, tea, and lime.

**Transport and Communication:—**The trade of Assam is chiefly carried by river but increasing use is being made of the Bengal & Assam Railway which connects Chittagong (now a major port) with Sadiya on the Brahmaputra. Regular cargo services I G N & R S N Co's. exist. B & A Rly traverses and serves the entire Province.

### CACHAR DISTRICT.

The district of CACHAR (area 3,855 sq miles, population 570,531, language, Bengali, Manipuri, Kachari, Naga, Kuki, Hindustani and Mikir) is intercepted by the Naga hills, Lushai hills, etc. Rainfall at Silchar is 121 inches annually and at places near the foot of the Assam Range the amount is nearly 170 inches.

The forests of Cachar, contain a large quantity of valuable timber trees, which are used for house-posts, beams, house-hold furniture, tea-boxes, railway sleepers, boats, agricultural purposes, and firewoods. Betel leaves and oranges are cultivated largely.

The staple food crop is rice, pulses, sugarcane and maize, chillies, mustard and linseed are also grown. Tea is largely grown here, the output being 25½ million lbs of green tea in 1933. There are several saw mills. The Manipurians weave cotton and mosquito curtains and manufacture brass vessels. Daos and axes are forged by blacksmiths.

The chief item of exports is tea. Timber and bamboos of Cachar are in good demand in Sylhet. Principal articles of import are rice, flour, betelnuts, salt, sugar, ghee, kerosene oil, piecegoods, iron and steel. The bulk of the trade is with Calcutta but Chittagong is taking a good share. Cachar imports timber, rubber and forest products from Manipur and sends there piecegoods, cotton twist, dried fish, and betelnuts.

SILCHAR (population 13,069) is the headquarters of the district which is the chief business centre. It is a terminus station of a branch line from Badarpur on the B & A Rly and is the centre of tea plantations in the district. The Indian Paper Pulp Co manufacture paper pulp here. There are oil mills also.

HAILAKANDI, SONAMUKH, SIALTEK, DHOLAI, LALA BAZAR, LAKHIMPUR and BARKHALA are the other centres of trade. Besides these the tea gardens consume various articles.

There are Railway lines to Hailakandi and Lalaghata from Katikhali Jn.

### DARRANG DISTRICT.

The district of DARRANG has an area of about 2,842 square miles and is situated between the Himalaya Mountains and the Brahmaputra.

Although rice is grown upon nearly 70 per cent. of the cultivated land, tea is the most valuable crop of all, the output being 39,497,544 lbs.

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in 1940 Jute is another crop which is grown far more extensively now than it was done twenty or twenty-five years ago

The trade is carried on to a very large extent with Calcutta merchants. The chief exports comprise of tea, mustard and other seeds, hides, cane and rubber, while the imports include rice, grain, machinery, hardware, kerosene, and piecegoods

TEZPUR is perhaps a place of call, the main north trunk road passes through the town, and it has also railway connection with the northern portion of the Province

There are about 2,200 villages in the district, the principal one is MANGALDAI being the other sub-division of the district

### GOALPARA DISTRICT.

GOALPARA is a district in the north-western portion of the province adjoining Bengal with an area of nearly 4,000 square miles

The Brahmaputra flows through the district, or forms a boundary, for a distance of more than 80 miles and a considerable portion of the land in the neighbourhood of the river is liable to be flooded. The district produces rice and cereals, wheat, pulse, mustard, tobacco, tea, cotton, and jute. The district contains valuable sal forests whose produce exported annually is worth a very large sum

The district has a good trade in Assam silk cloth (hand woven)

There are about 1,460 villages in GOALPARA. The towns of importance are DHUBRI, GOALPARA and GAURIPUR

DHUBRI (population 9,435) —It is the headquarters of the district. It is situated on the right bank of the Brahmaputra, and is a place of call for river steamers. The town contains public offices, library, Town Hall, and a High School. A considerable export trade in jute is carried on. There is a match factory here. There are 3 banks and a loan company.

GOALPARA is the third largest town in the district, and is the head quarters of the Sub division

GAURIPUR is a busy little place on the Gadadhar River, and a large number of Marwari merchants who have settled here carry on a very considerable export and import trade. It is situated about five miles to the north of Dhubri. A cattle fair is held in March

Principal goods exported include timber, hides, unhusked rice, silk cloth, fish, cotton, lac, betelnuts, and jute. Among imports are European piecegoods, salt, hardware, oil, tobacco, flour, sugar, spices, and various kinds of pulse

Vessels for carrying passengers and cargo are run by the India General Steam Navigation Company and the River Steam Navigation Company. There are also branch lines connecting certain centres with the Bengal and Assam Railway Company. There is a ferry service every alternate day between Dhubri and Goalpara of the Brahmaputra

### KAMRUP DISTRICT.

The district of KAMRUP has an area of nearly 3,863 square miles and a population of 976,746 who speak Assamese

Many different varieties of rice are grown, the majority of the plants being raised from seed sown in nursery beds and then transplanted. Nearly 80 per cent of the cultivated land is under this crop, the remainder being devoted principally to mustard, tea, pulses, jute, sugarcane, and garden produce

The chief industries at the present day are the weaving of cotton cloths, the rearing of silkworms and the production of silk, the manufacture of pottery, the making of bell-metal cups, jars, boxes, and brass utensils and ornaments of every description.

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Assam silk industry flourishes most at **SUALKUCHI** Bell-metal-warens are made at **SARTHEBARI**

**GAUHATI** (population 21,797) —It is the district headquarters and is the largest town in Assam It is an important steamer station on the bank of the Brahmaputra river and is a railway station on the B & A Rly Silk cloth is exported and there are a number of banks and insurance companies doing business here The Government Weaving Institute and Sericultural Station are located here There are four colleges including one law college and one ladies' college. The town serves as the gateway to Assam Valley and K J Hills

**NALBARI**—It is an important rice trade centre There are a number of rice mills here The place is also famous for Sanskrit College

**RANGIYA**—It is the railway junction of B & A Ry and R T. R. Ry Considerable trade with Bhutan is done here

Other important trade centres are **BARPETA** and **KUKURMARD** (sal trade market)

**PALASBARI**—It stands on the south bank of the Brahmaputra. There are transactions in endi, muga, paddy, mustard, jute, lac, etc

The district is traversed by Bengal and Assam Railway up to Gauhati The Brahmaputra River serves as an important highway for the conveyance of passengers as well as merchandise

### KHASIA & JAINTIA HILLS.

The Khasia and Jaintia Hill district has a population of 289,926 Languages spoken are Khasi, Assamese, Bengali, Hindustani, English, etc

**SHILLONG**—It is the seat of the Provincial Government and is connected with a sixty-four mile hill road with Gauhati Fruits, potatoes, hill produce, textiles are exported from here There is a hydro-electric company here

### LAKHIMPUR DISTRICT.

The district of **LAKHIMPUR** stretches across an area of 4,116 sq miles and is inhabited by a population of 724,582 who speak Assamese

The district of **LAKHIMPUR** is mainly a rice growing tract, about 324,000 acres being under the crop Tea is grown over 110,069 acres Fruits and vegetables are cultivated widely, there being 38,000 acres under them.

The district is the biggest coal producing centre in Assam In 1939 it produced about 238,102 tons of coal

**DIBRUGARH** (population 18,734) —It is a big tea centre It is the Sadar Station of the Lakhimpur district. It is situated on the bank of the Brahmaputra and is a railway station on the Dibrugarh-Sadiya Rly It is 859 miles from Calcutta

**TINSUKIA** (population 5,100) —A growing mart There are a number of rice mills here

**DIGBOI** is the only oil field of Kerosene oil in Assam

**MARGHERITA** is an important trade centre with a number of saw mills and collieries Timber is available here in plenty.

### NAGA HILLS.

The district of the **NAGA HILLS** is merely a narrow strip of hilly country with a total length of about 140 miles and a breadth of less than 30 miles and has got a population of 1,89,511

Rice is main crop and cultivation is only industry apart from one coal mine at **BORJAN** in the Mokokchung sub-division

The principal crops are rice, millet, chillies, pumpkins, cotton; maize and a various assortment of fruits and European vegetables

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Cloths woven and garments made by the Nagas withstand the coldest weather, and are in addition, very attractive in appearance. Making of iron spear-heads, implements, pottery, mats and baskets are the primitive industries.

KOHIMA, the headquarters of the district contains an old fort, magazine, post and telegraph offices, together with the official quarters of the Deputy Commissioner.

It is the only trade centre in the district and is situated 46½ miles from Manipur Road Railway Station (B & A. Ry.), Communication is by motorable cart road. There are no other roads in the district.

The remaining villages are about 480 in number and the majority of them are built upon the summits of hills.

MOKOKCHUNG is head quarters of Sub division of that name.

#### SIBSAGAR DISTRICT.

The district has an area of 5,003 sq miles and a population of 933,326. Language spoken is Assamese.

The district produces rich crops of rice, about 500,000 acres being under cultivation under the crop. Other important crops are rape and mustard, pulses, sugarcane, etc. Tea is grown on a large scale.

SIBSAGAR (population 6,651)—It is a big tea centre. There are oil mills also.

JORHAT—It is the district head-quarter town and is connected by the J P Ry, F B J Ry and the Assam Trunk Road. It is an industrial town and has a first grade college, a Govt Technical Institution and 4 high schools. The laboratories of the Economic Botanist, Assam, Agricultural Research Farm and the scientific department of the Indian Tea Association are located at TOKLAI.

GOLAGHAT—It is a sub divisional headquarter.

#### SYLHET DISTRICT.

The district of SYLHET has an area of 5,413 sq miles and a population of 2,724,432.

The district possesses the largest area under rice in Assam. In fact more than 16 million acres are under the crop. About 89,500 acres of land are under tea. Fruit and vegetables are grown on a pretty large scale. Linseed is also grown. Jute is grown over 37,200 acres. Muga silk worm is reared in the district.

SYLHET is famous for oranges which are exported to Calcutta in very large quantities. Limestone occurs plentifully in the district and is burnt into lime by several factories at SYLHET town and also at SUNAMGANJ and CHHATAK. Sylhet lime is in considerable demand in the Calcutta market and elsewhere as a building material.

SYLHET (population 24,435)—There are a number of banks and loan offices in the town. Bengali is the language spoken here.

KARIMGANJ (population 5,691)—It is an important trade centre in the Sylhet district. There are rice and oil mills here.

List of Fairs—Chandbhanga, 4 miles from Shaistaganj, Station (B & A Ry.) First week of January, Fatepur, 1 mile from Shahj Bazar (B & A Ry.) Middle of December, Kamrup, Ambubachi, Ashar (Religious), Tirhut, Assam, January, (Flower and Vegetable). Madhapur, 7 miles from Itakhala Railway Station (B & A Ry.), First week of December. Rice, cloth, shoes, wooden furniture, varieties, brass, pottery shops, iron made articles for domestic purpose and earthen toy goods, etc., Murakari, 8 miles from Chatiyain Station (B & A Ry.) Last week of December. Siddheswar, Katigora, Paragana, Barni Mela, on the Baruni day in March, Agricultural, Industrial and Cattle Fair, 15 days.

For full process of manufacture of phenyle, read DISINFECTANTS & ANTISEPTICS, Re. 1/12. Industry Book Dept., Calcutta.

# MARKET PLACES OF THE NORTH-WEST FRONTIER PROVINCE

**T**HE tract, now called the N. W. F. Province, originally formed a part of the Punjab, but for protection of India against foreign invasion and administrative reasons it was transferred into a separate province in 1901.

The province forms an oblong territory stretching from north-west to south-west, on the western side of the Indus. It borders on Kashmir, the Punjab, Beluchistan and Afghanistan. In 1932, it was raised to the status of a Governor's province and the Council under the Reforms was inaugurated on April, 20, 1932. Its total area is 36,356 sq miles. It has a population of 3,038,000, mostly of Pathans speaking Pushtu. Peshawar is the capital city.

The whole tract is very mountainous, the Hindukush mountains (nearly 16,000 ft.) form the northern boundary. The highest peak is Tirach Mir (25,426 ft.). Principal rivers are the Indus, Kabul, Kurram and Kunhar. Diversified climatic conditions prevail in the province. In the more mountainous parts it is much colder, specially in winter.

Average annual rainfall is scanty and varies from 10" to 43.8" in different parts. River valleys and the district of Peshawar are the only fertile and cultivated parts. Agriculture is the leading occupation of the province.

The principal crops in the province are Wheat, rape and mustard, barley, jowar, bajra, maize, gram, cotton, sugarcane, rice, tobacco, fodder crops, fruits and vegetables. The districts where different crops grow in plenty are Rice—Hazara, Peshawar. Wheat—Peshawar, Bannu, Dera Ismail Khan, Hazara, Kohat, Barley—Peshawar, Hazara, Jowar—Dera Ismail Khan, Peshawar, Bajra—Kohat, Dera Ismail Khan. Maize—Hazara, Peshawar, Gram—Bannu, Rapeseed—Dera Ismail Khan, Peshawar, Sugarcane—Peshawar. Cotton—Peshawar. The total area under cultivation is about 27 million acres, of which the area under wheat in 1940-41 was 1,087,000 acres, rice 34,000 acres, barley 159,000 acres and bazra 135,000 acres.

Large quantities of dried fruits, assafoetida (hing), musk etc., are carried from this place to distant parts of India. This province has an entrepot trade with Central Asia and Afghanistan. Numerous caravans enter Peshawar through the Khyber Pass from Kabul and Bokhara, and bring the raw silk, wool, resin, fruits fresh and dried, gold and silver lace, skins, mats and fibres. They take back cotton piece-goods, silk, sugar, salt, tea, and spices. The chief military outposts are Nowshera, Bannu, Kohat and Chitral.

The country is mainly agricultural, there being only 30 factories in operation in all. The factories are mostly owned and controlled by the Government. These include ice and aerated water factories, gin and press, electrical engineering workshops, forage presses, 5 ordnance factories, electric generating stations, and printing press.

There are four State canals in the district for irrigation. These are Lower Swat Canal (length 22 miles and 172 miles), Kabul River

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Canal (length 65 miles and 13 miles), Upper Swat Canal (length 138 miles and 403 miles) and Paharpur Canal (length 42 miles and 15 miles) The first two have reached the cultivable area commanded by them but there is still room for extension of area, irrigated by the remaining two

Public Works Department has commenced the construction of a hydro-electric power station on the Upper Swat Canal where it leaves the Benton tunnel in the Malakand Agency and falls steeply to the plains of the Peshawar District Two power sites about four miles apart exist on this stretch of the canal, which has a minimum flow of 1,250 cubic feet per second

**Malakand Scheme**—The Malakand Hydro-electric Scheme has been completed and with this the prospects for industrial developments in the Province look brighter

**Minerals**—The North-West Frontier Province has an almost inexhaustible source of limestone and rich deposits of good quality white statuary marble and handsome banded marbles White marble found in the Province should be conserved for ornamental work and the more abundant coloured varieties should be used for ordinary building purposes Coal is available in the Kohat and Hazara districts but has not been exploited

#### BANNU DISTRICT

The BANNU district (area 1,693 square miles, population 297,000 and rain-fall 12.82" in 1942) lies to the South of the Kohat District The crops are wheat, gram, maize, and bajra

The chief industries of the district consist of pasturage and agriculture There are some factories of dyeing, bleaching and printing Earthen-ware is made, iron goods are turned out by blacksmiths Woollen rugs are also made, woollen pile rugs and phulkaris produced in the district have some artistic merit

The chief exports of the district are wool, gram and wheat, while the chief imports are sugar, piecegoods, oil, iron and tobacco

Important towns in the district are BANNU (34,300) and LAKKI (10,000)

Three cattle fairs are held weekly in the district, viz.—On Sundays at Lakki, on Thursdays at Naurang, on Fridays at Bannu

#### DERA ISMAIL KHAN DISTRICT.

The DERA ISMAIL KHAN district (area 3,471 sq miles, population 274,064) has an annual rainfall about 10 inches

The staple crops are wheat (164,000 acres), bajra (91,000 acres), gram (61,000 acres), rape (69,000 acres), jowar (40,000 acres), barley (4,300 acres) and pulses (10,000 acres) are also grown

The cropped area of Dera Ismail Khan varies very much from year to year and depends very largely on hill torrent irrigation known locally as Rodkahi In an average year about 3 lakhs of acres are cultivated and Spring or the Rabi crop the principal crops are—Wheat, Gram and Barley In the Autumn or Kharif crop the principal crops are—Bajra, and Jowar Bajra and Jowar are the staple food crops of the Zamindar and there is usually an exportable surplus

Coarse cotton cloth is woven in many villages of the district. Turned and lacquered woodwork of remarkable excellence are made at DERA ISMAIL KHAN and also at KULACHI The commercial importance of the district lies in the fact that it lies entirely on the route of the Khorasan merchants who trade with India. The principal articles carried through it are silk, charas, gold and silver thread, and

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fur from Bokhara, wood and fruits from Ghazni and Kandahar, maddar, wool, ghee, tobacco from Ghazni. The return trade from India consists of indigo, piecegoods, metals, sugar, salt, shoes, leather. Making of many varieties of baskets from palm leaves is carried on in Paniala.

DERA ISMAIL KHAN (population 40,000) is the headquarters. The chief imports here are piecegoods, hides, salt, sugar and fancy wares. The exports are grain, wool and ghee. Lungi weaving and lacquered ware making are the local industries. It is commercially an important town as it lies across the route of the trade carried on between India and Khorasan by travelling Powindah merchants. It is a great centre of trade for dry fruits and drugs which Powindahs bring from Afghanistan. The exports from the place are almonds, wheat, spices, wool, etc., while the imports are hardware, cotton piecegoods, cutlery, etc.

Other town in the district are KULACHI (8,425) and TANK (6,421).

#### HAZARA.

The population of HAZARA, a mountainous district to the east of the river Indus and west of the Jhelum is given in 1941 Census as 7,39,575. The area is 3,009 sq miles, average rainfall is 43.8 inches. The district is divided into three Tehsils, each of which consists of a small irregular plain encircled by a succession of mountain ranges running parallel to the rivers Indus and Jhelum.

These are HARIPUR TEHSIL, which adjoins the Rawalpindi and Attock District of the Punjab, ABBOTTABAD TEHSIL and MANSEHRA TEHSIL. The principal towns are HARIPUR in the Haripur Tehsil (Population 9,322), MANSEHRA (Population 10,217) and BAFFA (population 7,988) in the Pakhli plain, in the Mansehra Tehsil. Havlian is the railhead and the chief market. ABBOTTABAD is Administrative Headquarters and important cantonment and possess a pleasant winter at 4,100 ft above sea level. The district is quickly afforested, particularly in the impressive mountains overtopping the famous Kagan Valley which leads up to the Babusar Pass and hence to Chilas and Gilgit and on the beautiful 10,000 ft Galgit Range on which are built the hill stations of Thandiani, Nathiagali—summer Headquarters of N. W. F. P. Government and Dungagali. These forests are providing much needed timber for war purposes.

The chief crop is maize, which is the staple diet of the people. Wheat, rice, barley and pulses are also grown.

At present the energies of the people find an outlet in Military service and the district has provided about 75,000 recruits. The only food exports are potatoes and fresh fruit principally pears and ghee, a good deal of which comes from Tribal territory. Trade with tribal territory (Kohistan, Allai, Tikri, the Black Mountain Area and Amb state) is considerable and consists principally in exchange of the ghee, hides, wool products of the tribesmen for salt, sugar, tea etc. There is also a great transit trade with Kashmir, the Abbottabad-Srinagar route via Garhi-Habiullah being one of the two routes from British India into Kashmir.

Fairs—Cattle and Horse Shows are held annually in each Tehsil, at Haripur in March, in Abbottabad in September and in Mansehra in November.

#### KOHAT.

The KOHAT district (area 2,703 sq miles, population 236,273; rainfall 16.27 inches) is very mountainous with many nullahs. Among chief crops may be mentioned wheat, gram, bajra, maize, pulses, fodder.

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crops, etc. Several salt mines are worked here, other minerals obtainable in the district being petroleum and sulphur to a small extent. Stock raising is practised.

The industries of the district include cotton spinning and weaving, carpentry, leather goods making, bricks and tiles, fireworks, mat weaving and oils. Pattoos of this place are well-known. Pattoos are made at Jungal Khel and Kohat. Other articles manufactured here are table cloth, phulkaries, and namdas.

The exports of the district are almond, spices, wheat, gram, rice, barley, green salt, mats, baskets, etc. The imports are piecegoods, woollen goods, hardware, brassware, general merchandise and kerosene oil.

The headquarters of the district is at KOHAT, which stands near the north bank of the Kohat Tor river, 2 miles from the Southern base of the Afridi Hills. It is also a cantonment.

Cattle fairs are held in Kohat City and Karak on Sundays. Sale and purchase of Live-Stock takes place.

Annually an Agricultural fair is held in the limits of Kohat City under the supervision of the District Magistrate by the local bodies. Arts and crafts of the district are also exhibited. Livestock competition is also held in this very fair. The show lasts for three days and is usually held in spring.

#### PESHAWAR DISTRICT.

The area of the PESHAWAR district is 2,637 sq miles and the population is 9,74,321. Languages spoken are Persian, Urdu, Punjabi and Pushtu. Average annual rainfall is about 13".

The chief crops grown by wells and tanks are wheat, barley, maize, sugarcane and cotton, apricots, peaches, pomegranate, quinces and other fruits are largely grown round the town of Peshawar. About 10 sq miles are under fruits and vegetables. It contains quarries of slate and marble.

The district is noted for its turbans whether of silk or of cotton and a great deal of cotton cloth is woven. Afridiwad cloths are now largely woven for the European market. Felted mats, saddle cloths, and blankets are also produced. Glazed earthenware, leather goods and copperware are made locally. There are 2 cotton presses here.

PESHAWAR (population 121,886) is the seat of the local government, and the chief trade centre. It is now the largest military cantonment under the Government of India. The bulk of Indian trade with Dir, Swat, Chitral, Bajur, Buner and Afghanistan passes through Peshawar. The chief exports are cotton piecegoods, raw cotton, yarn, indigo, turmeric, wheat, leather goods, brass, copper and iron wares, salt, spices, sugar, tea, tobacco and silver. Trade from and to Kabul and Bokhara passes through it without stopping. A government weaving institute has recently been opened to impart training on handloom weaving, plain and fancy bleaching, dyeing and finishing cotton, wool and silk.

MARDAN (population 26,279) —It is a military station. Important trades are ghee, gur, mash, black jawar, barley, maize, wheat. Ghee is a speciality. Weight of this place is 105 tollahs to a seer.

NOWSHERA (population 29,000) —It is an important military station on the banks of the Kabul river. The place is known for its rice and tobacco. A seer here equals 104 tollahs.

Other important places in the district are CHARSADDA (11,537), PARANG (10,227), TANGI (8,689) and RISALPUR Cantonment (8,016).

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## MARKET PLACES OF SIND

**S**IND formerly a part of the Bombay Presidency has been created into a new province since April 1, 1937. It comprises an area of about 50,000 sq. miles and is peopled by 4,537,000 persons.

The climate of Sind is generally uniform for all years with high temperature of 117°F in May and June and an average of over 100°F from March to October. From October the temperature rapidly goes down to 30°F in December and frost is experienced. Rainfall is usually negligible, being only about 5 inches, but in some years it is as heavy as 20 inches.

In Sind, the soil is alluvial while in Gujrat black cotton and gardu soils are common.

The peculiarity of the soil in Sind is that it is mostly composed of plastic clay which develops into rich mould in contact with water only. The spring crop of the province is chiefly rabi, while the autumn crop is mainly kharif. The rabi crops are wheat, barley, gram, oilseeds and vegetables, and the kharif crops consist of millets, bajra, jowar, rice, sunn hemp, til, pulses and cotton.

**Crops.**—Sind is an agricultural Province, but as the rainfall is very slight and uncertain, the chief source of its water supply for irrigation depends upon the great river Indus. There are about 150 lakhs acres of a very fertile rice land, out of which the area at present under cultivation is about 15 lakhs of acres. Wheat is grown extensively and covers 1,203,000 acres. Among oil seeds, rape and mustard is cultivated and extends over 204,000 acres. Fruits grow abundantly.

Sind depends for its prosperity on the river Indus. The soil is stiff and heavy and saturated with moisture during the rains, and the variety is known as "Salabi". The land is rich and fertile, being made so by the large amount of silt which the Indus carries in its tortuous course and deposits over the surrounding country. But rainfall in Sind is scanty and precarious, and the supplies in the Indus vary. For about eight months of the year the Indus is comparatively a small river, flowing at a very low level and most of the lands, during this low period of supply, cannot take advantage of its waters which pass down the river into the Arabian sea and are wasted. The Lloyd Barrage Scheme has put an end to this uncertainty of water supply and has freed the country around from haphazard cultivation.

The Lloyd Barrage Canals System is the largest single irrigation scheme undertaken in any part of India. It includes the excavation of 6,547 miles of channel and the construction of 1,889 bridges and regulators. Briefly it comprises of the construction of a Barrage across the Indus about three miles below the Lansdowne Bridge at Sukkur and the excavation of seven main canals with their branches, distributaries and water courses, on either side of the river. These canals water crops in all but two districts of the Province. In addition, there are the Flood Protection Bund scheme intended, as its name suggests, to protect the barrage area on the right bank from Khirtar hill torrents and the Manchar Drainage scheme designed to draw flood water from this area and so to prevent waterlogging.

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## 532 INDUSTRY YEAR BOOK & DIRECTORY, 1943

One of the canals on the right bank, the Rice Canal, runs for 6 months in the Kharif season only and irrigation rice cultivation while two of those on the left bank are feeders for the canals in the Khairpur State, the functioning of which was interfered with by the barrage system. A third supplies the Eastern Nara river, which was almost entirely dependent on inundation from the Indus when the river was comparatively high, some 217 miles of this river have now been canalised. The scheme commands a gross area of  $7\frac{1}{2}$  million acres, of which area  $6\frac{1}{2}$  million acres are cultivated. It is estimated that about  $5\frac{1}{2}$  million acres will actually be irrigated annually.

**Irrigation**—During 1940 total area irrigated in Sind was 4,433,049 acres of which 3,864,191 acres were irrigated by Government canals and 29,205 acres by wells.

**Cotton Growing in Sind**—The rapid expansion of the acreage under cotton cultivation shows what may yet be achieved in Sind. An ultimate acreage of one million acres under cotton in Sind, in the opinion of the Chief Agricultural Officer in Sind, is well within the bounds of possibility, upon full development of the Barrage areas in thirty years' time. During 1940-41 965,000 acres were under cultivation of cotton.

**Factories**—More than 300 factories are in operation in Sind, employing about 30,000 hands. The factories include more than hundred cotton ginning and pressing factories about 100 rice mills. Oil mills, tileries, and flour mills also exist.

### MARITIME TRADE OF SIND.

The figures for the foreign and coasting trade of Sind comprising imports and exports for the last five years are given below—

	1935-36	1936-37	1937-38	1938-39	1939-40
	(in lakhs of rupees).				
<b>Foreign Trade</b>					
Imports	15.63	15.71	19.58	16.17	16.55
Exports	17.88	25.21	23.90	18.42	19.69
<b>Coasting Trade</b>					
Imports	9.19	10.05	8.55	7.56	7.69
Exports	8.64	7.06	9.81	8.55	9.89
<b>GRAND TOTAL</b>	<b>51.34</b>	<b>58.04</b>	<b>18.36</b>	<b>16.08</b>	<b>53.82</b>

#### Imports.

	1935-36	1936-37	1937-38	1938-39	1939-40
	(in lakhs of rupees)				
Cotton yarn and manufactures of which	385	347	397	297	247
Cotton piecegoods	370	330	375	284	236
Oils of which	118	120	255	210	235
Minerals oils	106	110	247	206	222
Machinery & millwork	102	115	171	178	175
Metals & ores	128	104	148	139	128
Instruments & apparatus	51	57	68	70	70
Vehicles	60	66	109	88	68
Woollen yarns & manufactures	58	59	95	77	49
Liquors	46	42	47	43	46
Chemicals	30	28	34	32	41
Provisions	34	35	43	37	34

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# MARKET PLACES OF SIND

533

	1935-36	1936-37	1937-38	1938-39	1939-40
			(in lakhs of rupees).		
Hardware	39	36	47	34	29
Artificial yarn & manufactures	16	14	24	19	26
Paper & paste board	25	26	38	31	25
Fruits & vegetables	20	22	21	18	25
Wood and timber	37	32	27	22	24
Postal articles	31	30	29	29	23
Rubber manufactures	44	37	39	28	22
Drugs & medicines	17	17	23	21	21
Copra	13	21	24	20	19
Paint and painters' materials	12	13	13	12	11
Toilet requisites	84	94	10	11	11
Glass & glassware	15	13	17	15	10
Stationery	91	92	11	96	90
Arms & ammunition	80	25	83	67	76
Tobacco	16	17	30	55	67
Apparel	10	12	13	11	71
Haberdashery	10	96	11	11	64
Silk yarns and manufactures	72	58	69	42	62
Tea	41	49	37	60	53
Wool, raw	46	64	59	54	50
Matches	07	—	42	48	49
Dyeing and tanning substances	14	13	13	57	45
Soap	66	45	42	45	44
Coal	62	52	72	26	13
Other articles	842	88	100	91	883
	14,62	14,03	19,58	16,17	15,55

## Exports.

	1935-36	1936-37	1937-38	1938-39	1939-40
			(in lakhs of rupees).		
Indian Merchandise,					
Cotton, raw	13,39	17,11	12,41	9,11	12,17
Wool, raw	1,36	2,03	1,88	2,29	2,09
Hides & skins	69	73	1,22	1,12	1,34
Grains, pulse & flour	45	2,80	5,74	3,55	85
Seeds	27	55	49	18	35
Fruits & Vegetables	10	17	11	19	26
Fish	10	10	14	14	16
Bones	11	18	23	13	14
Toys	36	48	82	10	12
Manures	67	94	12	74	11
Wool Manufactures	72	56	54	45	10
Chromite	48	20	92	08	78
Oil cakes	16	25	88	20	75
Salt	—	—	—	10	61
Postal Articles	37	64	73	64	46
Saltpetre	37	16	17	29	46
Silk, raw	06	04	07	10	30
Fodder	14	10	54	45	19
Cotton Mnfrs	10	11	15	15	0.9

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	1935-36	1936-37	1937-38	1938-39	1939-40
	(in lakhs of rupees).				
Leather	18	23	20	07	06
Other Articles	33	39	47	40	59
<b>TOTAL</b>	<b>17,27</b>	<b>24,44</b>	<b>23,05</b>	<b>17,72</b>	<b>18,64</b>
Foreign Merchandise					
Hides and skins	7.6	11	18	1.2	23
Wool, raw	1.6	18	14	18	18
Sugar	29	75	25	—	14
Cotton, raw	04	02	19	81	13
Wool manufactures	43	85	57	60	59
Fruits & Vegetables	1.3	14	42	6.2	39
Metals and ores	24	42	76	50	33
Cotton Mnfrs.	12	08	07	07	02
Other articles	18	2.1	21	25	24
<b>TOTAL Re-exports</b>	<b>54</b>	<b>7.2</b>	<b>59</b>	<b>70</b>	<b>105</b>

The total value of the entire trade of the four ports named below (catering entirely for the coasting trade) increased again from Rs 714 lakhs to Rs 993 lakhs. Rice is the principal article in this trade. Ketī Bandar, Sando Bandar, Shah Bandar and Sokhi Bandar, exported 1160 tons, 374 tons, 2,558 tons and 619 tons respectively, of rice (not in the husk) to Cutch. Exports of rice from Ketī Bandar and Sokhi Bandar to Karachi amounts to 401 tons and 410 tons respectively.

### FOREIGN TRADE.

The total Sea-borne trade of the Province of Sind excluding treasure during 1939-40 amounted to Rs 55.03 crores, thus registering an increase of Rs 2.61 crores or 5 per cent by comparison with the previous year. The value of the foreign trade, came to Rs 37.33 crores, an increase of Rs 1.10 crores or 3 per cent.

**General review of import trade.**—The total value of private merchandise imported into the Province of Sind from foreign countries, including Burma, was Rs 15.55 crores, a decrease of Rs 62 lakhs or 4 per cent, as compared with the previous year. The decline under merchandise occurred under some of the main heads, but the principal articles contributing towards this decline were cotton yarns and manufactures (—Rs 49.66 lakhs), woollen yarn and manufactures (—Rs 27.70 lakhs), vehicles (—Rs 20.52 lakhs), metals and ores (—Rs 11.19 lakhs) and paper and pasteboard (—Rs. 6.18 lakhs). Increases occurred under sugar (+Rs 42.28 lakhs) and oils (+Rs 24.59 lakhs).

**General review of export trade.**—The export trade in private merchandise (Indian and foreign) from the Province of Sind to foreign countries amounted to Rs. 19.69 crores, an increase of Rs 1.27 crores or 7 per cent. The increase under merchandise occurred principally in exports of cotton (+Rs 3.06 crores), hides and skins (+Rs 23 lakhs), seeds (+Rs. 17 lakhs). Despatches of grain, pulse and flour (—Rs 20 lakhs), registered a decline.

### Geographical Distribution.

	Imports		Exports	
	1938-39	1939-40	1938-39	1939-40
	(in lakhs of rupees)			
United Kingdom	605	564	716	636
Burma	71	85	35	32
Bahrein Islands	31	69	12	16

**The Sphere of Tea: An exposition of the Cultivation, Manufacture and Trade of Tea in India.** Rs. 3. Industry Book Dept., Shambazar, Calcutta.

	Imports		Exports.	
	1938-39	1939-40	1938-39	1939-40
	(in lakhs of rupees)			
Ceylon	21	29	18	22
Europe	407	239	469	350
Japan	197	182	177	231
Iraq	106	79	33	51
China	40	85	104	205
America	105	184	179	332

Total imports of cotton piece-goods amounted to 131½ million yds valued at Rs 236 lakhs as against 170½ million yards valued at Rs 284 lakhs recording a decrease of 23 per cent. in quantity and 17 per cent. in value as compared with the previous year. Of the total imports in 1939-40 grey piece-goods formed 27 million yds, white goods 74 million yards and coloured piece-goods 30 million lbs. The shares of the United Kingdom and Japan in the total trade were 71½ million yds. valued at Rs 147 lakhs and 56 million yds valued at Rs 75 lakhs, respectively.

Exports of cotton raw amounted to 208,848 tons, an increase of 8,563 tons or 4 per cent. in quantity. Increases were registered mainly in Shipments to China (+16,275 tons). United Kingdom took 27.8 per cent and Japan 20 per cent of the exports. Due to low level of world prices, exports of Indian wheat showed a further heavy fall of 271,647 tons in quantity and Rs 239 lakhs in value. On the other hand large quantities of Australian wheat were imported notwithstanding the imposition of an import duty on foreign wheat.

#### COASTING TRADE.

**Imports**—The value of imports of private merchandise (Indian and foreign) in the coasting trade, exclusive of imports from Burma, amounted to Rs 7.69 crores, an increase of Rs 12.80 lakhs or 2 per cent. The principal articles responsible for this increase were gunny bags, grey (Indian and foreign) and coloured (foreign) cotton piece-goods, cigarettes, groundnuts and coal. On the other hand, imports of iron and steel, copra, coloured (Indian) cotton piece-goods and cotton twist and yarn showed a decrease.

**Exports**—The value of exports of private merchandise (Indian and foreign) in the coasting trade, excluding exports to Burma, came to Rs 9.89 crores, an increase of Rs 1.30 crores or 15 per cent. The increase under merchandise occurred chiefly under wheat but wheat flour, jowar and bajra, rice, hides and skins, fodder and sugar also contributed towards it. Decreases occurred, principally under cotton, pulse, gram, dried fruits and grey and white (foreign) cotton piece-goods.

#### SUBORDINATE PORTS IN SIND.

The subordinate ports in Sind are Keti Bandar, Sando Bandar, Shah Bandar and Sokhi Bandar. Of the total trade Keti Bandar is responsible for 30 per cent, Sando Bandar for 3 per cent, and Shah Bandar for 25 per cent, and Sokhi Bandar 42 per cent. An analysis of the coasting trade of Sind shows the following trends of trade.

**Coasting Imports**—Indian Merchandise.—Cotton Yarn, Piece-goods and Cigarettes were imported mainly from Bombay, coal, matches, iron and steel and gunny bags from Bengal, cement from Kathiawar, groundnuts from Kathiawar and Bombay. Fruits and vegetables and provisions from Bombay, Madras and Kathiawar, copra from Kathiawar and Madras and spices from Travancore, Madras and Bombay.

**Foreign Merchandise**—Imports of cotton yarn and piece-goods, cigarettes, motor cars and lorries came mostly from Bombay.

**The Sphere of Tea:** An exposition of the Cultivation, Manufacture and Trade of Tea in India. Rs. 3. Industry Book Dept., Shambazar, Calcutta.



**Coasting Exports**—Indian Merchandise—Gram and hides and skins were exported chiefly to Madras, fish to Bombay, salt to Bengal (75,056 tons), fodder to Cutch, Kathiawar, Bombay and Portuguese ports, jowar and bajra to Kathiawar and Cutch, pulse to Madras, Kathiawar and Cutch, rice to Kathiawar, Madras, Cutch, Bombay and Portuguese ports and wheat to Bombay (76,088 tons), Bengal (39,714 tons), Kathiawar (19,312 tons), Cutch (15,090 tons), and Madras (4,276 tons), wheat flour was exported to Madras, Bengal, Bombay, Kathiawar and Portuguese ports and seeds to Bengal, Kathiawar, Madras, Bombay and Cutch. Shipments of cotton amounting to 47,531 tons were made to Bombay (22,859 tons), Madras (10,178 tons), French ports (3,667 tons), Bengal (610 tons) and Kathiawar (217 tons). **Foreign Merchandise**—Carriages and carts went mainly to Bombay, dried fruits to Bombay, Madras and Kathiawar, kerosene to Cutch and Kathiawar, sugar to Baluchistan and Madras and cotton piece-goods to Bombay and Baluchistan.

### KARACHI CITY.

**KARACHI** is the capital of Sind. It is not only a seaport of Sind, but is the natural outlet and inlet for the trade of a hinterland stretching from Sistan to the United Provinces. It also embraces Eastern and Southern Persia, Afghanistan, Beluchistan, vast wheat fields of the Punjab and all the principal trade centres of Northern India. Population is 265,565. The facilities now provided in the Port of Karachi, are great. There is a continuous line of wharfage 8,600 feet in length consisting of 17 ship berths. A Bulk Oil Pier provides accommodations for oil steamers and tankers. Karachi has also gradually expanded into an Air Port of great importance.

**Occupations**—The main occupations are industry, transport and trade, in which 189, 122 and 172 respectively per 1,000 of the workers are employed. It will be seen that the ratio of workers under trade is nearly as high as the ratio of workers under industry. This is in marked contrast to Bombay. There are in Karachi 281 male and 35 female workers per 1,000 of the population.

**Trade**—The principal exports from the port are wheat, grains, oil-seeds, cotton, wool, hides and bones. The chief variety of wheat exported from Karachi falls commercially within the definition of "soft" wheat, but there are "hard" wheats also (red and yellow) which are grown in the Central India, these qualities find market in Marseilles and Italy for the manufacture of macaroni. Indian barley, gram, and oil-seeds, which play a very prominent part in the world's markets, pass chiefly through Karachi in very large quantities.

Karachi also plays a very prominent part in the export of wool, and as much as about one-third of the total export from India passes through Karachi. The white wools of Sind, Gujrat and Kathiawar have a recognised commercial value, but much of the quantity enters from Afghanistan. Bones and hides also are exported in large quantities from this port, and during and after the war Karachi has captured much of Calcutta's pre-war trade.

The quantity of cotton exported during 1938-39 was 200,285 tons valued at Rs 9, 11 lakhs as against 208,529 tons valued at Rs 12, 41 lakhs. The "Sind Desi" variety of cotton was especially in demand for mixing with wool, as the price of the latter reached a considerably high level. There was an expansion in exports of raw wool due to increased shipments to the United Kingdom and the USA. The total quantity of wheat exported from Karachi in 1938-39 was 277,097 tons as against 452,271 tons in 1937-38. The falling off in exports of rape-seeds was mainly due to the absence of demand from the United Kingdom and Belgium and smaller purchases by France. Exports of

**CLERK'S MANUAL**—A comprehensive manual for the guidance of Clerks. Re. 1/4. Industry Book Dept., Shambazar, Calcutta.

wheat flour dwindled due to reduced shipments to Burma, Anglo-Egyptian Sudan and Aden

Imports of piecegoods in Karachi in 1938-39 amounted to 170½ million yards valued at Rs 284 crores of which the United Kingdom supplied 89½ million yards and Japan 78 million yards.

**Industries**—Industrially Karachi is not yet a great centre. Its chief possessions are well-equipped modern flour mills and North-Western Railway workshops. Various wool, cotton and hides presses flourish, and many engineering firms also pass very busy days in this city. A cement factory has been started recently.

Small industries consist of soap making and glass work, trunk and despatch box manufacturing, fish supplying, motor works, tiles manufacturing, etc, etc. Though an exporter of oil-seeds, Karachi possesses only a few oil mills and some small power driven plants. Salt is manufactured on a large scale at Mauripur Salt Works but the undertaking wholly belongs to Government.

#### DADU DISTRICT

The DADU district is fertile and produces among others rich crops of rice, wheat, jowar, pulses and various sorts of fruits and vegetables.

Chief crops are Rice, wheat, jowar, grains and pulses, sesamum, rape and mustard, gram, etc.

The district is not industrially big. Cloth, carpets, saddles, shoes, pottery are made on a small scale.

**SEHWAN TOWN** (population 5,795)—The local transit trade is in wheat and rice, and the local commerce is in cloth and grains. The town manufactures carpets, coarse cotton cloth and pottery. There was formerly a flourishing art of seal engraving which is now extinct.

**DADU** (population 7,328) is the head quarters of the district. The trade of the place consists of grains, oils, dry fruits etc.

#### HYDERABAD DISTRICT.

The **HYDERABAD** district has a population of about 6,61,589, mostly agricultural in an area of about 8,291 sq miles. The annual rainfall averages 57".

Chief crops are rice, wheat, cotton, bajra, grains and pulses, sesamum, rape and mustard, oil seeds, tobacco, fodder crops, fruits and vegetables.

The district manufactures blankets, cotton cloths, rugs and metal works, all of which are of superior quality and are much in demand outside the district. It still maintains its pre-eminence for lacquered work, and its glazed pottery and *susi* have a good name in the market. There are 5 cotton pressing factories in the district.

The chief imports into the district are cotton, sugar, spices and English made articles, via Karachi. The district, being situated on the banks of the river Indus, has also a good fishery. The fishes are all exported to the adjoining districts. The chief exports of the district are cotton, wheat, millet and various oil-seeds. Goods are carried by rail and also by boats. The health and climate of the district are on the whole good.

**HALA DIVISION**—Principal crops raised are cotton in *kharif* and wheat in *rabi*. Bajra and jowar are raised here and there for consumption by poor class people. With the advent of the Lloyd Barrage garden culture has started and mango trees are reared. Tobacco and sugarcane is also grown in fairly large quantity.

The cotton raised in the Division is handled by 17 ginning factories some of which have pressing plants as well. Small plants for milling wheat exist throughout the area. The oil mill of the *Sekarias* work-

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ing on the Kali Road at Hyderabad (Sind) is run on scientific lines and the cotton seed oil produced is of the best specification

**HYDERABAD CITY** (population nearly a lac)—It is the centre of industrial and educational activities and Headquarters of the district. It has 6 cotton factories doing ginning and pressing work, 1 bone factory and 1 oil mill of Sekarias. It is an important centre for tanning of hides. The Bhaibund Industrial Nari Shala has initiated cotton industry in the form of manufacturing woollen and cotton goods like sweaters, underwears, towels, napkins, cot tapes, etc and a variety of embroidery pieces. Hyderabad is a Railway junction and connects Karachi, the capital of the Province, by rail with Bombay and Agra via Marwar on the Jodhpur Railway and Badin and the through line runs up to Lahore.

**HALA** (population of over 7,000 souls) is noted for its lacquerware and glazed pottery.

**TANDO ALLAHYAR** with a population of over 5,000 is noted for refining of silk threads and cloth dyeing.

**NASARPUR** a small Municipal town carries on its old traditional business in the manufacture of 'Sosis' and Khesses.

**TANDO MAHOMED KHAN** with a Municipality and electric power house is the most important town in the division of Samna. It has got 1 picture house, 4 rice husking, 2 rice grinding and 2 cotton ginning factories. Besides there are a few oil presses and hand looms for local consumption among poorer classes. The trade consists chiefly of export of rice and rough cloth. Nazar Mahomed's fair is held annually which lasts 4 days where some business in cattle is transacted. Some 2½ miles away from it another fair is held at Bulri which is known as Shah Karim's fair, which also lasts for 4 days and cattle business also is transacted there.

#### KARACHI DISTRICT.

The **KARACHI** district comprises the delta of the Indus proper and contains a population of 6,49,467. The land is cultivated by irrigation from wells, tanks and artificial canals.

The chief agricultural crops of the district are jowar, bajra, barley and sugarcane which are produced here in abundance. Rice forms the stable crop of the place but wheat, sugar-cane, millet and tobacco are also grown. Fodder crops are grown over 140,000 acres. Red Sindhi breed of cattle are reared around Karachi and northwest of it.

The district is not industrially advanced, but some companies are prospecting for minerals and oil. There are a few handlooms at TATTA for the manufacture of coarse cotton cloth and lungis. There are some factories for the manufacture of cement, electric bulbs, wire-nails, tiles, typewriter carbons and ribbons, soap and salt.

Exports from the district consist of wheat (brought from the Punjab, U P and the adjoining districts), cotton (also coming from those places), wool, hides and skins. The chief imports into the district via Karachi, one of the major and important ports, are sugar, kerosene oil, peacogoods, liquor and metals. These articles are sent to up country by rail and are mostly consumed at those places.

**KARACHI**—It has an area of 17.42 sq miles and an estimated population of over 3 lakhs. Besides being the official Civil and Military capital of the Province of Sind, it is the nearest port to Europe and the third port of India in order of commercial importance, serving the whole of the Northern India. Karachi is a terminus of the N W. Railway and main-gate of India for aerial service with an airship base and aerodrome at Drigh Road, the Head Quarters of the Royal Air Force, and a base for seaplanes at Manora.

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**KETI BANDAR** (population 1,655) —The town has lost much of its former importance. The exports comprise of fire wood and a little of rice. The articles are chiefly sent to the coastal ports of Bombay and Madras and imports from these ports are received.

**MANORA** —An annual fair is held during March and many people assemble there to make their purchases of cattle and fancy goods.

**TATTA TOWN** (population 9,635) —The road traffic of central and lower Sind passes through Tatta and is therefore an important centre of trade. Its present trade consists of silk and cotton manufactures and grains and pulses. Coarse cotton fabrics are also woven here, which are both plain and coloured. The town imports cotton cloth, rice and sugar, and exports rice, ghee, glass, fruits, vegetables and wool. The local trade is flourishing owing to increasing road traffic.

**SHANTINAGAR**, 10 miles from Karachi, has an up-to-date cement factory belonging to the Dalmia Group. Daily production is 750 tons of cement.

This district is served by N. W. Rly. But service has greatly quickened traffic. Besides, various steamer lines connect Karachi with Bombay outward through the Arabian sea and other ports.

**Fairs:**—Meharshah at Mirpur Sakro, near Jungshahi R. S. January; Shah Yakid at Shah Yakid, near Jungshahi R. S. on Chaitra, Bawa Muham at Malu, June, Amir Pir at Khudai near Jhumpir R. S. on November, Bao Purandas at Bao Purandas near Jungshahi R. S. on April, Shah Kamal at Tatta, near Jungshahi R. S. September, Satyun at Satyun, near Jungshahi R. S. on December, Sayed Muhammad at Kajhri, near Debeji R. S. November, Pir Patho at Pir Patho, near Jungshahi R. S. on May.

#### LARKANA DISTRICT.

The LARKANA district contains a population of 448,657 in an area of 5,091 sq miles. Owing to its great fertility, this district is generally known as the "Garden of Sind."

The area is irrigated by 3 main Barrage canals, viz., Rice Canal, Northern Dadu Canal and Warah Bianch and after the functioning of the Barrage canals the cultivation has much increased specially large tracts of land formerly lying waste in Shahdakot taluka have been brought under cultivation. Dokri taluka has obtained considerable importance on account of Mohan-jo-daro which attracts people from every corner of the globe. Agricultural Research Station has also been established near Dokri.

The agricultural products consists of rice, wheat, jowar, gram, grains and pulses, sesamum, rapeseed, cotton, sugar cane, tobacco and various sorts of fruits. Tamarisk which grows here in plenty and attains a fair size is much used by the inhabitants for firewood.

The manufacture of the district are coarse cotton cloth, carpets, rugs, mattings, salt, metal work, shoes, native saddles and other leather goods, dyeing is also an important industry of the district. There are several rice mills and cleaning factories and they consume enormous quantity of paddy from the surrounding districts and the locality.

The chief occupation of the people is agriculture and the manufactures of this district are coarse cotton cloth (joni, susi and khes), mattings, metal work, shoes and saddles. Dyeing is also an important industry. There are numerous rice husking factories and corn grinding mills. There are two ice factories, one power house at LARKANA and another at KARBAR have been newly started.

The exports of the district comprise chiefly of grains of all sorts, wool, cotton and hides and the imports into the district are chiefly

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English and Japan manufactured goods Sugar, silk and fruits are also imported

**LARKANA** (population 26,841) the district headquarter, is thickly populated Local trade in metals, cloth and leather is important The town manufactures cloth of mixed cotton and silk Coarse cotton cloth, metal vessels and leather goods are also made here. There are 10 printing presses here

**BUBAK** (population 3,002) is a centre of "Bhang" production which is cultivated under license and there is a central warehouse for storing these products here

Other centres of trade are **KAMIBAR** (9,717) and **RATODERO** (7,385).

The North Western Railway runs through Larkana, Ratodero and Dokri taluks Two talukas of this district namely Kamibar and Shahdadkot are served by narrow gauge Railway line called Larkana-Jacobabad Railway.

#### NAWABSHAH DISTRICT.

Population of the NAWABSHAH district is 5,84,378 The district is agricultural, and grows cotton in kharif and, mainly, wheat in rabi Its prosperity has increased considerably owing to the construction of the Barrage

There are 39 cotton ginning and pressing factories in the district, of which 9 ginning factories and 3 presses are worked at **TANDO ADAM** There is one sugar factory at **PRITAMBAD** in Sinjhoro taluka, the first of its kind in Sind

Important centres of trade are **TANDO-ADAM** (17,233 pop ) **SHAH-DADPUR** (14,721 pop ) and **NAWABSHAH** (population 17,509)

No cattle or industrial fairs are held

#### SUKKUR DISTRICT.

The **SUKKUR** district has an area of 5,403 sq miles and a population of 6,23,875 Sindhi, Urdu and Baluchi are the languages spoken here

Among the industries of the district may be mentioned weaving of cotton, tassar silk and woollen goods, copper and brassware making, wood carving, boat building, etc There are several cotton pressing factories and cotton mills in the district

The district is irrigated by inundation canals that flow only in the hot weather, and also by perennial canals which come off from the Lloyd Barrage which is just below Sukkur

**SUKKUR** (population of 69,277) —Exports from this place comprise of silk and cotton cloths, raw cotton, wool, opium, saltpetre, sugar, dyes, brass and copper utensils The upward traffic includes piece goods, metal, wines and spirits and country products It is a growing town, much of the Punjab grain being shipped down the River to Sukkur, where it is entrained, and sent on to Karachi It has a flourishing port, and has a large country boat manufacturing industry Sukkur town has biscuit, cigarettes, and hosiery factories It has many thread ball factories also

**SHIKARPUR** (population 62,505) is situated on strategic branch of the N W Ry line to Quetta The roadway from Sind to Khorasan via the Bolan Pass runs through this town It receives foreign piece goods, raw silk, ivory, cochineal, sugar-candy, coconuts, metals, coarse cotton cloths, kinkhabs, kirani, drugs of all sorts, various dyes, opium, fruits, antimony, gums and horses The articles chiefly come from Karachi, Marwar, Bahawalpur, Khairpur and Ludhiana The town exports, indigo, senna, metals of all kinds, coarse cloth, cane-sugar,

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shields, groceries, hemp seeds, hoses, cloths and dry grain. It manufactures carpets and coarse cotton cloth. The old trading and banking firms still exist in Shikarpur and have their Head Offices here. Their branches extend over the whole of India. The town is noted for its pearl trade and also for its goldsmiths.

**ROHRI TOWN** (population 13,714) stands on the main line of North Western Railway. The trade of the town consists of grains, oil, salt, fullers earth, lime, cement and fruit. Tassar silk is manufactured here in three factories by local Sethias. Cement, which is manufactured by Associated Cement Company, is exported to outside places in large quantities.

**GHOTKI TOWN**—Ghotki is the Head Quarter town of the Taluka with a population of 4,638 souls, and, is the chief trade centre of the taluka. Trade is chiefly in cereals, skins and wool. Carpentry, wood-carving, staining and weaving of coarse cloth are the local industries. Annual fair of "Cheti Chand" is held in April every year outside the town, where about 6,000 to 8,000 people assemble. Agricultural show is being held at this fair by the Agricultural Department. It is a municipal town.

**MIRPURMATHELO TOWN** (population 1,838) is the Head Quarter and the central place of trade of the taluka. There is one ginning factory and a few handlooms preparing coarse cotton cloth in large quantity and refined silk cloth for export to big towns in the province. The chief products for export are jowar, bajra, paddy and cotton.

**DAHARKI TOWN**—It is a railway station near the Taluka, Head Quarter—**UBAURO**. There is a cotton ginning factory. Artistic brass, copper and iron works, such as small boxes, jars, 'hukkas,' rose-sprinklers, knives, sword-sticks, etc. of very nice type are manufactured by blacksmiths by manual labour. It has a population of about 2,109 souls. It is one of the chief centres of trade within the taluka.

#### THAR AND PARKAR DISTRICT.

The combined THAR and PARKAR district lies on the border of the Thar desert in Rajputana and is mostly sandy. It has an area of about 13,638 sq miles and population 47 lakhs who speak Sindhi.

The chief crops grown are rice, wheat, bajra, jowar, cotton, oil-seeds, pulses, fruits and vegetables. Wild products include elephant grass, a kind of big grass from which hand fans are made. Paban or lotus plant and various grasses from which ropes and mats are manufactured are grown on damp soil of the place.

Chief crops are wheat, cotton, rice, bajra, and fodder crops. Cattle of this place are famous.

The manufactures of the district consist of woollen blankets and rugs. Camel saddles and covers and coarse cotton cloth are also obtainable. There are twenty-one cotton cleaning and pressing factories and several rice mills here which consume the products of the districts. Salt is also manufactured in the district on a small extent.

The exports from this district consist of grain, wool, hides, fish, salt, soda and fan leaves (a kind of weed from which fine fans are made). The imports into the district consist of cotton, metals, dried fruits, dyes, piecegoods, silk, sugar-candy and tobacco.

**MIRPUR KHAS** (population 19,591)—The trade is in grains and cotton, which is the finest, in the whole of Sind but is not obtainable in large quantities. Piecegoods are also sold here. The market sells vegetables for local consumption only. It is a Rly Station on the Hyderabad branch of the Jodhpur Rly. and the headquarters of the district. There are 7 cotton ginning and pressing factories in the town.

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**MITHI TOWN**—Local and transit trade consists of grains, cotton, cattle, camels, ghee, dyes, hides and skins, oils, piecegoods, sugar, tobacco and wool. The trade however is not big.

**NAGAR PARKAR**—The local manufactures consist of weaving and dyeing of cloths and there is a local trade in wool, grains, coconuts, piecegoods, hides and skins and metals. Besides this there is a small transit trade in grains, camels, cattle, wool, and ghee.

**UMBERKOT** (population 4,275)—The chief occupations of the people of the place are agriculture and cattle breeding. The town is practically situated in the desert. There is a good local trade in grains, ghee, camels, cattle and tobacco. There is also a good transit trade in cotton, metals, dyes, dried fruits, ghee, grains, oil, piecegoods, wool and tobacco. Coarse cloth is the only manufacture of the place. A big fair is held in March in the temple of God Mahadeo.

**Fair**:—A fair is annually held in this district in the town of Pilhoro in the month of September and several fairs are also held in various parts of the district which are also largely attended.

#### UPPER SIND FRONTIER DISTRICT.

The UPPER SIND FRONTIER district lies in the Indus plain and stretches along the northern border of Sind for 110 miles. The area included is 2115.26 sq miles, and the inhabitants number 2,59,709. The language is Sindhi.

The whole district is irrigated by canals. The areas under the principal crops are: Rice 1,39,208 acres, jowar and bajra 1,17,941 acres, cotton 9,220 acres, kharif oilseeds 2,015 acres, wheat 51,836 acres, gram 1,43,361 acres, rabi oilseeds 31,672 acres. Cotton has been recently introduced, and has rapidly become popular, it is cultivated both on the Barrage and on the inundation canals with fair success.

Charcoal is burnt in the forests along the river, and some skins, hides and wool are exported. Village industries, e.g., weaving, lacquer work, rope-making and carpet making exist on a small scale but are of no commercial importance. There are a number of rice husking mills, and a cotton-ginning factory at JACOBABAD.

Grain is the chief export, and cloth and other manufactured articles are imported.

There is a high standard of horse and cattle breeding in the district, and animals are exported to other parts of India in some quantities. The Bhagnari breed of cattle is established in the district.

The principal towns and villages with their population are as follows: JACOBABAD (15,818), GARHI KHAIRO (1,989), THUL (2,982) and KANDHKOT (2,953). Each of these has a grain market, and exports paddy, wheat, oilseeds and cotton (phutti).

The Rohi Quetta branch of the North Western Railway crosses the district from South to North, with a station at JACOBABAD. From this station a light railway runs east for 77 miles to Kashmir on the Punjab border.

**Fair**—An annual horse and cattle show is held at JACOBABAD in January, and attracts entries from the neighbouring districts.

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## MARKET PLACES OF ORISSA

**O**RISSA, made a separate province under the new Government of India Act, covers an area of about 32,000 sq. miles. It comprises of the districts previously included under Orissa Division under the Province of Bihar and Orissa, in addition to the districts of Ganjam and Koraput from the Madras Presidency. Some have come in from the Central Provinces, in particular the new sub-division of Nuapara and attached to the district of Sambalpur. Population of the Province is 8,729,000 and taking into account the population of the Orissa States as well, the aggregate population is estimated at 11,754,000. The language spoken throughout the province is Oriya.

The province is a strip of alluvial coastal plain with tracts in the interior. Out of 32,000 square miles, one-third is deltaic and the rest hilly. There are two large plateaux 2,000 feet or so above sea level, and another of 3,000 feet with several peaks of 4,000 feet. The chief rivers are the Subarnarekha, the Baitarani, the Brahmani, and the Mahanadi. Orissa is blessed with a very large lake, Chilka by name, which abounds in fishes. The export of fresh fish takes place from the Chilka Lake by rail.

Mean temperature during the cold season is 64°F and during summer 83°F. Rainfall averages 65". Great damage is generally done by cyclones in the sea coast of Orissa.

**Natural Resources.**—Orissa is a great agricultural country, with vast natural resources and fertility. It is mainly a rice-producing country, with vast tracts of rich soil capable of great agricultural development. If its rivers are controlled to avoid devastations of flood it will be a land of wealth instead of poverty.

**Crops.**—The chief crop raised in the province is rice which thrives vigorously in the fertile alluvial soil of the districts, enriched further by the deposit of silt due to the occasional floods in the rainy season. The area under the rice crop during 1940-41 was 5,070,000 acres. Next in importance is the sesamum crop which was grown on 100,000 acres. Oil seeds are grown to some extent. These include rape and mustard (28,000 acres), linseed (8,000 acres) and castor (16,000 acres). Jute is grown on a small scale in the province, the area under cultivation being 31,000 acres. About 8,000 acres of land are under cotton. Other crops are maize, pulses, mung, etc., spices such as turmeric are cultivated. Coconuts grow abundantly near about RAMGIRI. Betel leaf of the province is considered very delicious. Forest products include sal, gallnuts, nux-vomica, myrobalan, chua from sandal wood, beeswax, honey, etc.

**Industries.**—The province is industrially backward, there being practically no big industry there. Bell metal wares, horn articles and silver filigree work of Orissa have a good reputation and are sent outside the province. Ice factories have been started near Chilka. Stonewares are made at BALASORE while tassar and silk weaving is carried on in PURI and SAMBALPUR districts. Coarse cloth is woven widely on handlooms. Rice mills exist in GANJAM.

A scheme has been afoot to provide training in cottage industries, such as palm gur, palmyra gur, agriculture and hand made paper. The

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**Do not hanker after service when you can be your own master. HOME INDUSTRIES explains, Re 1/12. Industry Book Dept., Calcutta.**



Government is also encouraging sericulture, tassar rearing, cotton cultivation, training of workers and spinners and supply of more efficient implements. Big industries are alike engaging the attention of the Government which is directly responsible for the promotion of soap, chemical, paint and allied industries in the Province. A limited company has been floated under State assistance for taking up the manufacture of these useful articles of every day use. A sum of one lakh of rupees has already been provided for state aided industries.

The possibilities of manufacturing salt on a commercial scale in Orissa are being investigated upon. In Astarang the people have been manufacturing salt on the Madras system. Salt is also manufactured in the Chilka area on lixiviation process, and the quality is also fairly satisfactory. In the opinion of experts Orissa can start a successful salt industry on a commercial basis in Astarang of Puri District, Chilka area and Balasore. In quality, it can compete with Aden and Assab salt, if manufactured at Balasore, Astarang salt is already equal in quality with that of Madras.

**Minerals:**—The chief mineral obtained in the province is coal. During 1939 the output of coal was 58,687 tons against 44,475 tons in 1938. Coal bearing rocks occur in Sambalpur, and to some extent in Angul. Alum and manganese ore are available in Ganjam, iron ores, antimony and mica in Sambalpur. Copper is also met with. The prospects of getting minerals in the Koraput district seem bright.

**Coasting Trade:**—The province imports—Keosene, essential oil seeds, sugar, twist and yarn, piecegoods grey, gunny bags, tobacco raw. Exports—Paddy and rice. The chief port sharing the major part of this trade is BALASORE.

The above figures do not take into account the trade done at CALINGAPATAM and GOPALPUR which have considerable coasting trade and have been recently added to Orissa. The aggregate value of the coasting trade during 1938-39 was Rs 33 lakhs. Figures of coasting trade during the three years ending 1938-39 follow.

	1936-37	1937-38	1938-39
		(in 1,000 rupees)	
Imports	17.81	13.25	12.02
Exports	18.57	9.24	20.97

**Factories.**—About 80 factories are in operation in Orissa, of which rice mills are 50 in number.

#### BALASORE DISTRICT.

The area of the district BALASORE is 2,085 sq miles and its population is 10,29,430.

The chief crops of the district include rice, jute, sugarcane, pulses, etc. It is a great rice bearing tract. Jute, sugarcane, mustard, grain and pulses, fruits and vegetables, etc., are grown.

There is no local industry of importance. A number of rice mills has been established in the town and it is also a home industry among the females. There is in the town a Technical School where various kinds of furniture of wood and iron are made and supplied on order. Good business is done in bell-metal ware, cotton weaving and mat-making.

Export from the district consists of hides, jute, oilseeds, mats, timber, stone-ware, rice, betel leaves and coconuts and the imports are piecegoods, glass and brass ware, medicines, spices etc.

CHANDBALI is a sea port where steamers from the coastal ports touch. Both cow and buffalo ghee can be obtained here. It is exported to Calcutta by steamer.

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**BALASORE** (population 19,141) —The principal exports from this place which is the head quarters of the district are rice, stone-ware, fish (both raw and dry), spices, bidi and provisions Brass dishes, pots, glasses, plates etc, are manufactured and exported to Calcutta and Puri Coarse cotton cloth, bell-metal articles, stone-ware and ornaments of silver are also manufactured

**BHADRAK** (population 19,550) —Rice and paddy are the chief articles of trade in this market Besides these, buffalo-ghee, kalai and mustard seeds are also available

**List of principal agricultural, industrial and cattle fairs—SAHAJI HAT** in Remuna, 6 miles west of Balasore R S, Sundays and Thursdays, Vegetables, Rice, Paddy, Jute, Brass wares, etc **SINGLA HAT** in village Singla, 10 miles east of Basta R S, Sundays and Thursdays, Vegetables, Oilseeds, Rice, Paddy, Goor prepared from date-palm and cattle **SIMULIA HAT** in village Simulia near Baliapal P. S, Tuesdays and Saturdays Vegetables, Rice, Cloth, Mat, Betel leaves, Goor prepared from date palm, etc **DEULA HAT** in village Deula, P S Bhograi on the coast canal Sundays and Thursdays, Rice, Paddy, Mat, Betel leaves, Oil seeds **JALESWAR HAT** in village Patharpura, near Jaleswar R S, Mondays, Vegetables, Mat, Oilseeds and Spices **SORO HAT** in the village Adanga, P. S Soro, one mile south of Soro R S, Mondays and Thursdays, Vegetables, Rice, Stonewares, Spices **TURIGARIA HAT** in village Tunigaria, 6 miles west of Soro R. S, Tuesdays and Fridays Vegetables, Stone ware, Agricultural implements, Baskets, Timber **KHANTAPARA HAT**, one mile west of Khantapara R S, Tuesdays and Saturdays, Vegetables, Rice, Paddy and Cattle **BARIKPUR HAT** in village of Barikpur on the Orissa Trunk Road, 3 miles south-west of Bahanaga R S, Fridays, Cattle and Stonewares **KUPARI HAT** in village Kupari 3 miles west of Khaira P S, Mondays and Thursdays, Timber and Vegetables **ADA HAT** in P S Simulia, 7 miles west of Markona R S, Mondays and Fridays, Timber, Rice, Agricultural implements **Gaudpada alias JAMJHARI HAT** 4 miles north east of Markona R S, Wednesdays and Saturdays, Cattle **BUDHABAR HAT** (i.e. Wednesdays Hat) near Chandan Bazar, Bhadrak, 4 miles east of Bhadrak R S Wednesdays and Sundays, Vegetables, Rice, Jute, Gur, Iron work such as scythe and agricultural implements, cattle, Khaki alias **TIHIRI HAT** in village Tihiri (Mirjapur), 14 miles east of Bhadrak R S, Mondays and Fridays, Buffaloes, Cheese, Rice, Dry fish **DHUSURI HAT** in Dhamnagar P S, 14 miles south east of Bhadrak R S, Tuesdays and Saturdays, Fishes and Cattle **CHANDBALI HAT** in P S Chandbali, Sundays and Thursdays, Paddy, Rice, Kentimasinga (mat), Dry fish **BETADA Hat** in Tulamtula and Chandanpur, 5 miles west of P S Basudevpur, Mondays and Thursdays, Vegetables, Rice, Paddy, Oilseeds, Fish, Cattle

A fair is held in Balasore town on the night of Shivaratri in February An important Mela is held at Chandaneswar Shiva temple in village Hooghly of Bhograi Police Station on the Chaitra Sankranti in April and a large number of people congregate The temple of Gopinath at Remuna is visited by pilgrims to Jagannath.

#### CUTTACK DISTRICT.

The CUTTACK district lies in the Orissa Province Its areas including that of Angul sub-division is 4,535 sq miles and a population of 14,31,287 speaking Oriya, Bengali, Urdu, Telugu and Hindi The delta of the Mahanadi and the Brahmani traverses it

Acreeage under crops in 1938-39 Rice 1,13,420, murua 14,380, rape and mustard 8,500, tobacco 5,882, sugarcane 6,685

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The silver filigree work of CUTTACK Town is well-known, cotton weaving, bell metal work, lac and brass ornaments, pottery, hardware, gunny bags and basket making are the chief industries. Neat toys and sticks are made of buffalo horn, deer horn and ivory and are largely bought by pilgrims visiting the district.

The chief exports are rice (to Calcutta, Mauritius and Ceylon), oil-seeds, hides, jute, timber, horn, lac, nux-vomica, bees-wax, resin and silver filigree work (to Calcutta), and bones, glasswares of Baraugh (to Calcutta and Ganjam). The chief imports are piece-goods, kerosene oil, crockery, glassware, fancy goods, motor cars and accessories, machine oil, metals, yarn, spices and betelnuts and salt from Calcutta and Madras Presidency, jungle products, gram, oilseeds from the Tributary States and C P, and spices and condiments from Ganjam.

The chief trade centres are CUTTACK TOWN, and CHANDBALLI (outside the district).

**CUTTACK** (population 74,291) —It is temporary headquarters of both Orissa and the district and is situated on the B N Ry. It is 254 miles from Calcutta and 773 miles from Madras. The local manufactures consist of sticks and penholders from the horns of animals. Combs, hookah pipes, toys and chess are also manufactured here. Shoes are largely manufactured and are exported to Calcutta and other places. Timber industry of Cuttack from the jungles of C P and other Indian State jungles is important, and Calcutta gets a large share of its supply from Cuttack. Coloured lac bangles and wooden toys coloured with lac are manufactured and exported to various places. It is also a place of important stone quarrying. It is famous for gold and silver filigree work. It has silver works and cutlery works, (scissors, dao, axe, small daggers, kukries, etc.) the products of which are largely exported to Calcutta. It imports rice, timber, salt, honey, chua, wax, lac, sticks, combs, toys of buffalo horn, broad-bordered dhuties, chaddar, coconuts, hookah pipes, knives, bell-metal utensils, etc. The place is healthy.

**KANTARHAT**—Large quantities of coarse rice and paddy are imported here which are exported to Calcutta and Cuttack.

**ANGUL SUB-DIVISION**—It is a sub division of Cuttack district and has a population of 1,65,856 who speak Oriya and an area of 901.86 sq miles. The headquarters of the Sub division is ANGUL, 64 miles away from Cuttack by road and 14 miles from the Meramandali Railway Station (B N Ry).

The principal crops of ANGUL are rice, millets, pulses and maize. Cotton, jute, groundnuts and oilseeds are also grown by the people.

There are coal bearing rocks and mica, the quality being not very good. Iron stone occurring here is locally smelted by the blacksmiths, cotton weaving, basket and mat making are the chief industries. There are also iron, brass and bell-metal works.

The trade is chiefly with Cuttack. The chief exports are rice, millets, gram, lentils, catechu, molasses, oilseeds, shellac, wax, honey, hides and horns. The chief imports are piece-goods, salts, spices, ghee, sugar, dried fish, kerosene oil, petrol, brassware and glass beads.

The chief trade centres are ANGUL, SANKHAPUR and BAGDIA. Goods are carried by carts and Gutias (Small hilly carts).

There are also weekly markets at ANGUL, BAGDIA, BANRPAL, KOSLA, BANTLA, MAIDHARPUR, CHHENDIPADA, MARATIRA, JARPARA and TIKERPARA.

**Fair:**—A fair is held at Santri in November each year.

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**GANJAM DISTRICT.**

The GANJAM district has a population of 2,413,291. Climate along the coast is cool and healthy.

The district is famous for the good quality of paddy grown. Green grain and horse-grain are largely cultivated and ragi is grown three times a year, but gingelly and sugarcane form the only important industrial crops. Chief crops are —Rice, marua, jowar, grains and pulses, sesamum, groundnut, coconuts, condiments and spices, fruits and vegetables, etc.

A large area of the district is preserved as forest and the products include myrobalans, gall-nuts and oranges. Alum and some quantity of manganese ore are also found here. A sugar factory, a saw mill and a tannery work at RUSSELKONDA and many rice mills exist at BERHAMPORE, PUNDI, PALASA, TILARU and AHMADAVALLASA.

RANGIRI —Timber and other hill products are exported from the taluka. Excellent oranges are grown on the hill-sides which are situated on the western part.

GHUMSUR —This is the most suitable timber-growing area in the whole district. Of the timbers obtainable, sal is the most important. The land is very fertile and is irrigated by Rushikulya project. Sugarcane is also grown here in the centre and south of the taluka.

ASKA TAHSIL —Rice is widely cultivated and sugarcane is extensively grown in this taluk. Sugarcane is treated in a Government factory at ASKA and made into sugar. Markets are at ASKA and SURDA.

BERHAMPORE (37,750). —It is the headquarters of the district. It is the trading centre of the district. The chief industry of the town is the weaving of fine silk and tassar silk cloth of varied colours which are in brisk demand all over India and specially in the Madras Presidency. Sugar is also manufactured here in considerable quantities. Articles available here include jute, rice, coconut, betel leaf (for which it is famous), kulthi, kalai, red pepper, turmeric, maize, tamarind, etc. There are many factories for converting sea water into available salt.

BARUVA —It is a growing seaport in the district.

CALINGAPATAM —It is a port mainly doing coasting trade. The exports include grain, pulse, myrobalans and turmeric. The imports are haberdashery, glassware and gunny bags. Exports of groundnut in 1938-39 were 14,691 tons worth Rs. 17,34,000.

PARLAKIMEDI (population 20,072). It is one of the chief towns in the district. Fine mats and ornamental buckets are made here.

MUKHALINGAM, a village in the district, is a place of pilgrimage. Its industries include fine mats, fancy baskets, flower stands, cheroot cases, etc., from a species of reed. The chief trade is in rice.

CHICACOLE (16,588) —It is an important town in the district. It is noted for fine muslins and durable checks woven in the locality. The muslins of Chicacole was at one time the rival of the Dacca product. The industry suffered much from the machine-made fine cloth and the competitive price of these products. But finer kinds of muslins are still obtainable from the weavers by arrangement.

GANJAM —Its chief trade is in rice within the province.

GOPALPUR —It is the chief port of the district. The chief articles of export consist of grains, pulses, hides, timber, hemp, oilseeds, and dried fish from the neighbouring countries. The chief articles imported consists of sugar, piecegoods, apparel, jute manufacture, matches, kerosene oil, cotton twist, etc. The place is healthy, and is resorted to by many health-seekers, both European and Indian. Foreign trade at the port is now insignificant.

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**SRIKURMANU**—It is a famous place of pilgrimage for Hindus. The most important festival here is Dolatsava held annually in March, when about 20,000 pilgrims assemble.

#### KORAPUT DISTRICT.

The district of KORAPUT has been newly formed from a portion of the district of Vizagapatam in the Madras Presidency. This district has an area of 9,850 sq miles and is peopled by 11,24,862. Naturally the crops raised are akin to those in Vizagapatam, viz, rice, marua, bajra, cereals and pulses, fibres, coconuts, etc.

The chief centres of trade in the district are JEYPORE and GUNUPUR. Local industries are insignificant. There is a sugar factory at RAYAGHADA. The water falls of the Kolab river may provide cheap power.

Other market places in the Koraput District are Nowrangpur, Hathorandi, Tentulikhunti, Dabugam, Kodinga, Bhattigam, Kottagam, Pappadahandi, Chatikona, Muniguda, Ambodala, Jagadalpur, Baleru, Dummuriput, Rasingi, Lunguri, Kudih, Pukkili, Gunapadu, Soguru, Katagada, Chatuva, Teyakonta, Rallagedda, Hingariput or Kotakaru, Avurada, Savai, Redongi, Sanduru, Bhamini, Sakhandu, Jallaru, Mathili, Malkangiri, Bejjaguda, Dammapada, Kutnipali, Kongarabada, Mundiguda, Mapuguda, Amalabhata, Sheshikal, Choripalli, Khedda pada, Koraput, Dasamanthapur, Lakhampur, Kakkirigumma, Nandigam, Mahadeviput, Podaguda, Bomdupodar, Simala, Dumaguda, Kotpad, Kontagam, Katragada, Dasumantapora, Cheptamba, Ronaspur, Bobbia, Dimala, Jeypore, Kotpad, Borigumma.

Combined Cattle & Agricultural shows were held in February 1942 at Kotpad in Nowrangpur Division and at Muniguda in Rajaghada Division. These shows are generally held every year in winter in the month of February. Cattle, Agricultural and Industrial sections are exhibited in the shows.

#### PURI DISTRICT

The PURI district extends over an area of 2,499 sq miles and has a population of 1,034,301. Uriya, Bengali and Hindi are the languages spoken in the district. Average annual rainfall is 58".

Soil is fertile but the district is subject to occasional floods. The chief crops are rice, kulthi, mung, birhi, mohua, castor oil, sugarcane, cotton. Coconut, pulses, oil seeds, fruits and vegetables are also grown. Betel leaf, tobacco and vegetables are largely grown. The chief industries of the district are tassar and cotton cloth weaving, brass and bellmetal utensils making.

Brass, gold and silver ornaments and wicker-work baskets are made. Coarse sugar is also prepared from sugarcane. The chief exports are rice, gram, pulse, unrefined sugar, coconuts, brass, silk, fish and the imports are raw cotton, piecegoods, refined sugar, spices, nuts, iron, tobacco, salt, kerosene oil and copper. The chief centres of trade are PURI, SATYABADI, PIPLI, BALAKATHI, KHURDA and BAUPUR.

PURI (population 37,568).—There is the famous temple of Jagannath on the sea coast. Pilgrims assemble here during the Rathajatra festival (in July) and also during the Doljatra ceremonies (in February) and make purchases of various articles of brass utensils and cloths. There is a dak bungalow.

B N Rly crosses the district and it is well supplied with good roads.

Fairs:—Important fairs of agricultural and industrial importance are held annually in this district.—

Sadar Subdivision, Harirajpur fair.—It is held in village Harirajpur, P S Delang (2 miles from Khurda Rd. Railway Station and 7 miles

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from Pipli) This is held for 4 days just after Dol Purnima and takes place generally in the last week of February Various industrial and agricultural commodities are sold Besides, about 1,000 heads of cattle are brought here for sale from different parts of the district as well as from the neighbouring Indian states and from the district of Ganjam. Dayana-chori fair—It is a big fair which is held in village Ghoiadia, P S Delang generally in March. It lasts for about a week and attracts a large crowd from almost all over the district In this fair too a large number of cattle are brought for sale Siruli Mahabir fair—it is equally an important fair held in village Siruli within the jurisdiction of Sadar P. S It is held in March and lasts for about 3 weeks. Various agricultural and industrial commodities are sold here as well as cattle numbering approximately 500

Khurda Sub division Fairs—Atri fair sits for a month in the middle of January from the day of Makar Sankranti Barunai fair—Sits for 4 days in June from Raja Sankranti

### SAMBALPUR DISTRICT.

The SAMBALPUR district extends over an area of 5,394 sq miles. Its population is 1,182,622 Oriya is usually spoken The climate of the district is dry and is generally healthy but occasionally temperature is excessive Average rainfall amounts to about 60"

The land round Sambalpur town and the north of the Mahanadi is most fertile The chief crops grown are rice, sesamum, pulse, urid, kudo, cotton, sugarcane and fruits and vegetables The forests contain sal, bamboos and other timbers A coal field is also situated at HINGIR-RAMPUR Good quantity of coal is mined in the district Iron ores occur on the hilly country and minute quantities of gold are obtained by sand washing Antimony and mica also exist There is one Paper Mill at BRAJRAJ-NAGAR The name of the Mill is Orient Paper Mill Besides this, there are 5 rice mills, 1 at SAMBALPUR, 1 at SASON and 3 at KHARIAR ROAD There is also a soap factory at KHARIAR.

Tassar silk weaving is the important industry Plain and drilled cloth are woven at REMENDA, BARPALI, TORA, BARGARH and SAMBALPUR for local use generally, bell metal industry is carried on at TUKRA Brass pots and iron implements are also made But tassar and bell metal industries are on the decline.

The exports are rice (staple), oil seeds, sleepers, and sun-hemp. The imports are salt, sugar, gur, kerosene oil, cotton cloth, silk, wheat, gram, pulses, arhar, ghee, etc

Local trade is done in weekly markets at SAMBALPUR and BARGARH A large mart for oil seeds is DHAMA; TARATIA is the timber mart, BHIKAMPUR is a mart for selling iron implements, NARSINGNATH and HUMA are centres of gram and cattle trade

SAMBALPUR town is on the bank of the Mahanadi and has a population of 17,079 It is a commercial centre of the district as well as for the neighbouring States It has a depot for cooly immigrants for Assam tea gardens Weaving of tassar and cotton cloth is the chief industry It is the Sadar Station and headquarters of the district. The station stands on B N Rly and is 413 miles from Nagpur and 350 miles from Calcutta

Fairs.—Bhukta and Jamuria, Sambalpur, (Cattle); Huma, Sambalpur, February (Agricultural and Industrial) Cattle fairs are held at BHUKTA and JAMURLA Other markets are In Sadar. Sub-division, Rengali and Kandekela both in P S Mahadebpali, in Nawa-para, S D Jonk, Bisooa, Nawapara and Parkod, In P S Komma, Bhela, In P. S. Khariar, Khariar, Bodan, Nilji.

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## MARKET PLACES OF THE INDIAN STATES

**THE** Indian States cover an area of 711,032 square miles and comprise of 755 towns and 187,138 villages with a population of 92,973,000 souls, as compared with India's total area of 1,805,332 sq miles and 2,316 towns and 685,665 villages, with a population of 388,800,000 souls. Thus the Indian States occupy more than one-third the area and less than one-fourth villages with a population of little less than one-fourth of the whole country.

**CROPS**—Crops of diverse character are raised in the Indian States. Cotton is cultivated on an extensive scale in Hyderabad, about  $3\frac{1}{2}$  million acres being under cotton in that State. It is also grown in the Central Indian States, Baroda, Gwalior, Rajputana and Mysore. The chief wheat-bearing tracts in Indian States fall under the Central India Agency, other States producing wheat on a fairly big scale are Gwalior, Punjab States, Rajputana and Hyderabad. Production of rice in the Indian States is however small, the chief areas under rice being in Hyderabad. Oilseeds are obtained in big quantities in the States. Castor seed grows in Hyderabad, Baroda and Mysore, linseed in Hyderabad, Kotah and Bhopal, rape and mustard in Alwar, sesamum in Hyderabad, Baroda and Bhopal. Tea, coffee and rubber are grown in the States in S India.

**MINERALS**—Valuable minerals are found in the States. Production of coal in 1939 amounted to 3,093,245 tons of which Hyderabad was responsible for 1,214,568 tons, Korea State 1,048,364 tons, Talcher 44,137 tons, Rewa 327,479 tons and Bikaner 39,204 tons. Other important centres of coal production in Indian States are Khasi Hills, Kolat State and Rajgarh. Rich deposits of manganese, bauxite, sandstone, limestone, saltpetre are distributed widely over the States. Gold is mined in Kolar in Mysore State. Enormous resources of iron ore in Mayurbhanj.

**INDUSTRIES**—Hand weaving is the biggest industry in the State. Cotton mills are now growing in number in Baroda, Indore, Hyderabad, Gwalior, etc. During 1939-40 the cotton mills in Indian States spun 202 million lbs of yarn and wove 528 2 million yds of grey and bleached goods and 172 million yds of coloured goods. Silk filatures exist in Mysore and Kashmir. Iron smelting is done at Bhadravati in Mysore. Sugar manufacture is progressing steadily in the States, there being now 11 sugar factories which crushed 75,500 tons of cane and produced 29,000 tons of sugar. Output of gur in 1939-40 in Hyderabad was 75,000 tons. Cotton ginning is practised on a huge scale in the cotton tracts belonging to the Indian States.

Besides artwares, utensils, flour mills, oil mills, etc., various new industries are being introduced in the States. Factories for manufacture of match, paper, pottery, glass, cement, soap, etc. are being sent up. Salt is being manufactured on a big scale at OKHA.

### AKALKOT STATE.

The AKALKOT State is 498 square miles in area and its population according to the Census of 1931, is 92,605. The gross revenue of

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the State based on the average of the past five years inclusive of the Local Funds and other items is Rs 7,58,002 The average rainfall is 29.79 inches Area under forest is about 40,607 acres

The exports chiefly consist of the surplus agricultural produce such as jowar, bajra, ground-nut, cotton, chillica, linseed, safflower-oil, betel leaves, hides and fire-wood The chief articles of import are rice, wheat, salt, jaggery, sugar, coconuts, groceries, bangles, hardware, copper and brass utensils, cloth, kerosene oil, petrol and bamboos There are five ginning factories in the State Out of these, one factory at KARAJAGI had no work The total quantity of cotton ginned in the four factories was 331 tons against 224 tons The weavers as usual are busy with their looms and prepared saris and shirting cloths WAGADARI, KARAJAGI and CHAPALGAON are noted for weaving industry

There is also a hosiery at AKALKOT which manufactures cotton and wollen socks, hoses, frocks, underwears, sweaters, scarfs etc., of various designs The quality of articles produced has won medals and certificates in several industrial exhibitions An important addition to the industries in the Akalkot State was made recently by the opening of the Jaysingh Match Factory, oil producing industries and a soap factory at the capital A number of facilities such as leasing of land and supply of water and electricity at concessional rates etc., have been given by the Darbar specially with a view to give an impetus to industries in the State

#### ALWAR STATE.

The ALWAR STATE (area about 3,217 sq miles, population 8,23,055 in Rajputana) is intercepted by ridges of rocky and precipitous hills

The chief crops are bajra (3,83,202 acres), gram (77,604 acres), jowar (68,865 acres), barley (90,881 acres), pulses (89,291 acres), rape (30,367 acres), wheat (44,885 acres), sesamum, condiments and spices. Grass and bamboos grow abundantly in the State Rath and Mewat breeds of cattle are available

The State exports ghee, zira, oilseeds, barley, gram, pulses and minerals Imports include cotton seed, rice, sugar, gur, shakkar, cloth and wheat

ALWAR CITY (population 54,143) has a Central Jail where carpets, rugs and aerated waters are manufactured Water is brought to the city by canal system An Ice Factory and one Talkie Cinema are running

The State produced 110,429½ tons of minerals worth Rs 3,65,725, in 1941 The minerals included freestone (Rs 32,225), flagstone (Rs 69,310), masonry stone quartzite (Rs 36,400), Kankar lime (Rs 1,22,500) Hardened shales (Rs 11,790), Slates (Rs 1,845), Marble (Rs 75,600), Limestone (Rs 7,910) Barite (Rs 8,145) The localities where the minerals are mined are —Freestone—Chilori, Doli and Buntoli group, Dhaghawala, Kuncha, Mandla and Puthi etc (46 quarries), Flagstone Kirwari, Saidpur, Shahpur, Odra, Beraheri, Ulaheri, Toda, Sagar Jadid, Sagar Pahariwal, Bharon Khola, Lalkhan, Pehal, Dantla, Chodala, Ramsinghpura, Santi-khori, Kho, Saleta Basi, Ghata Bandrol, Todiar, Vijaypur Chandoli, Chandoli-ka-Bas, Mundli, Behram-ka-Bas, Mukandpura, Hamirpur, Haldika, Jhakrana Basi—Limestone —Dholayan, Palwa Srichandpura, Machari, Kunch Bahali, Ghatra, Bas Bad Bileta, Narani etc (16 quarries) Barite, Jamroli, Khora Makrora, Sanpuri, Bhagat-ka-Bas, Umrain, Bhankera, Hardened shales-Mehta-was, Slate—Kayasa, Rewana Marble —Jhiri and Dadampur Masonry

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stone quartzite—Sonawa, Jarakhwara Ghegohi, Choroti and other similar quarries of State Kankar lime all over the State

The main line of the B B & C. I. Rly (metre gauge), from Delhi to Ahmedabad, passes through this State whereon ALWAR and RAJGARH are principal stations (Another branch line of this railway (Agra Bandikui-Branch) touches the South-eastern border of the State

Lorry services connect the capital to the outside Nizamats and also to Jaipur and Delhi; much of the export and import has now begun to be carried on by motor trucks

**Fairs:**—Cattle fairs are held in every Nizammat annually where the buying and selling of cattle takes place These fairs have created great enthusiasm among the rural population as besides the buying and selling of the cattle, agricultural exhibitions and demonstrations are given and sports are held Lachhmangarh, Dhaulagarh, Baisakh Badi 2 to 8, Kishengarh, Kishengarh, Asar Badi 5 to 10, Alwar, Malakhara, Bhadon Sudi 2 to 8, Lachhmangarh, Kherli, Asoj Badi 1 to 7, Alwar, Alwar, Asoj Sudi 8 to 11, Rajgarh, Reni, Kartik Badi 4 to 9; Ramgarh, Ramgarh, Ramgarh, Kartik Sudi 9 to 13, Mandawar, Ajeraka Sawan Sudi 7 to 10, Tijara, Tapukra, Bhadon Badi 5 to 8

#### BAHAWALPUR.

The BAHAWALPUR State is an important State in the Punjab Agency with a total area of 15,000 square miles and an annual income of over Rs 132 lakhs Its population has risen in recent years, and is now over 13 lakhs

The practice of irrigation by inundation canals has given place to irrigation by well controlled channels, and a large portion of the cultivated area now receives canal irrigation Much of the State however is, and must remain pure desert

The chief crops grown are cotton, wheat, rice, millets and gram The first two are the most important. The produce of cotton is roughly estimated at two million maunds a year.

The live stock chiefly consists of bullocks, cows, buffaloes, sheep, goats, donkeys, camels, horses and mules

The natural resources of the State are at present limited to salt-petre and soda prepared from a kind of grass A search for mineral oil has however been recently started

Silk lungis, porcelain and metal cups, earthen vessels and printed bed-sheets are special industries of the State

Cotton is almost entirely exported Wheat, gram, ghee and hides are also exported in fairly large quantities Imports include sugar, cloth and fruits of all kinds

There is one metalled road from Bahawalpur to Deranawab Sahib Besides, another road, Multan Panjnad Reti Road by name, has recently been constructed Unmetalled village roads exist throughout the State There are four railway lines running throughout the State—Lahore-Karachi Main Line from Samasatta to Dandi Railway Station, Samasatta-Bhatinda Line from Samasatta to Qasimwala and Macloodgunj to Amruka, Bahawalnagar—Cholistani Railway and Khanpur—Chachian Railway The last two are owned by the State

The chief means of transport are railways, lorries, camels, bullock carts and donkeys The most important trade centres are BAHAWAL NAGAR, CHISTIAN, HARUNABAD, HASILPUR, FORT ABBAS, KHAN PUR, RHIMYAR KHAN, SADIQABAD

The following cattle fairs are held in the State. Chistian (March), Bahawalnagar (March), Harunabad (October). Agricultural shows are held at all these fairs.

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### BARODA.

The BARODA STATE has a total area of 8,176 square miles and the total population according to 1941 census is 2,855,010 Gujarati is the State language Main crops are cotton, rice, wheat, pulses, oilseeds and tobacco Cotton is grown over 863,000 acres with a yield of 202 bales

The State maintains an efficient Agricultural Department at a cost of Rs 7 lakhs per annum.

The budget estimates of Baroda for 1942-43 show revenue surplus of only Rs 0.35 lakh The net result of all the transactions under revenue, capital, debt and remittance heads however is expected to result in an increase of as much as Rs 4 lakhs in the states cash balances which will amount to Rs 178.15 lakhs at the end of 1942-43

**INDUSTRIES**—The policy of active help and encouragement of new industries adopted by the State has resulted in steady industrial development of the State which now number about 175 and employ 41,079 hands There are at present 18 cotton mills, 1 woollen mill, 13 oil mills, 2 match factories, one each at PETLAD and BILLIMORA, a salt factory at OKHA and cement factory at DWARKA Textile mills employ 28,953 person of the total of 41,101 employed in industries in Baroda State The extent of growth can be seen from the fact that the number of joint stock companies increased from 89 with a paid up capital of Rs 34 lacs in 1924-25 to 172 with paid up capital of Rs 29,49,84,885 in 1941-42 The development of textile industry is striking The production of piece-goods increased from 64,20,780 lbs in 1924-25 to 43,100,000 lbs in 1941-42 The match factory at Petlad worked satisfactorily with an outturn of 368,658 gross of match boxes while the Billimora factory produced 64,701 gross of safety matches in 1941-42. The Gaekwad Sugar Works and Distillery showed good outturn, producing 36,520 maunds (Bengal) of sugar and 16,516 maunds of molasses The whole stock of sugar was sold and the molasses were used to manufacture rectified spirit

Chemical industry is the second largest industry in the state It occupies an important place in the whole of India and has made rapid progress in recent years There are about half a dozen good chemical works of which the Tata Chemicals Ltd, and the Alenebic Chemical Works are very prominent These factories manufacture fine and heavy chemicals, magnesium chloride, epsom salt, pharmaceutical drugs, rectified spirit, etc Apart from the workshop of G B S Railways there are two important iron works, viz, the Sayaji Iron Works and the Baroda Bolt and Engineering Works

The cement factory at Dwarka is one of the biggest cement factories in India The Salt Works at MITHAPUR produced 8,159 tons of salt during 1941-42 Attempts have been made for the preparation of edible shark liver oil on commercial scale

Deposits of China clay are worked at Ransipur in Mehsana District. The output of refined China clay is 910 tons per annum Rubber goods are manufactured by Gujarat Rubber Works in Baroda

480,000 local maunds of ghee worth Rs 144 lakhs were produced of this 170,000 mds of ghee valued at Rs 51 lakhs are exported from Mehsana, Amreli, Baroda and Navsari Districts

**HANDICRAFTS**—The State is famous for some of its handicrafts, such as lacquer work of Sankheda, "Patolas" of patan, wooden carved articles, brass and silver stools, and embroidery work with gold and silver and silk thread, iron grill work (balcony railings), etc Number of people engaged in cottage industries in 1941 is 87,137

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**BARODA** City is the capital of the State with a population of about a lakh and possesses magnificent palaces and beautiful gardens, besides a Museum and a Picture Gallery. It is a growing industrial centre with five cotton mills, one woollen mill, two chemical works of which Alembic Chemical Works is the most important, and other industrial concerns. A research institute Shri Sayaji Jubilee Science Institute has been established to develop the existing industries and starting new ones.

**PORT OKHA**—Trade at Port Okha has developed considerably in recent years on account of fine harbour and various port facilities and the large market provided by the State territories and adjacent area. The customs duty derived therefrom was Rs 25 lakhs in 1941-42.

**TRADE AND INDUSTRIAL CENTRES**—Important centres of trade and industry are BARODA, MEHSANA, NAVSARI, PETLAD, KALOL, PATAN, AMRELI, DABHOI, VISNAGAR, PADRA, SANKHERA, etc.

The new industries under contemplation include manufacture of writing paper, kraft paper and straw board. A factory for the manufacture of starch has already been started.

Total length of the railway lines owned by the State is 794.55 miles out of which, 735.71 miles of railway is worked by the State including Broach-Jambusar (71.55 miles) recently purchased. The remaining lines are worked by the B B & C I Railway and the Jamnagar & Dwarka Railway. The railway facilities available in Baroda State are 2.57 miles for every 10,000 of the population.

**Fairs**—No well established large scale cattle fairs are held in Baroda State. There is one cattle market at Baroda held on every Friday. At Pattan in Mehsana District, many cattle come for sale every day. There is some cattle sale at the Fair of Veral-Mata near Vyara in Navsari District.

#### BASTAR STATE.

**BASTAR** lies to the south-east of the Central Provinces and is bounded on the east by the Koraput district of Orissa. The State is the twelfth largest in the Indian Empire, its area being 13,725 sq miles. The greater part of the State has a heavy rainfall going up to 90" in parts. The population numbered 633,888 (1941 census).

A large portion of the State is covered with jungle and is sparsely populated. The open areas, chiefly in the east and north, are well populated and contain good rice lands. Chief crop is rice, but millets, pulses and rape are also grown in large quantities.

**JAGDALPUR** (population 11,304), on the Indravati, is connected to Raipur, C P in the north (184 miles). The nearest railway stations to Jagdalpur are Salur (B N. Ry 124 miles) and Dhamtari (B N Ry 136 miles). The trade of the northern portion of the State goes to the latter.

Trade in the extreme south of the State is by river, Konda in the south being a river port of the Saveri, a tributary of the Godavari, down which boats ply to Rajahmundry. The principal exports in the south are timber, including teak, minor forest produce, rice and other agricultural products. In the north and east of the State the principal exports of forest produce are timber, including sal sleepers, myrobalan, lac, cattle, hides and horns. Rice and rape seed are the principal crops exported. The chief imports are salt, kerosene oil, cloth, yarn and miscellaneous metal goods. There is a large and important cattle markets at JAGDALPUR and LOHANDIGUDA about 20 miles west of Jagdalpur.

The natural resources of the State are very considerable. A large part of the north, centre and east contains valuable sal forest. There

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is a large amount of excellent quality teak especially in the centre and south of the State and myrobalan, wax, lac and honey, tanning bark, tassar cocoons are also important. There are large iron ore deposits, those in the Baildila range in the centre of the State being possibly the best quality ores in India. Mica deposits are also found including lithia mica.

**List of Fairs.**—In JAGDALPUR TAHSIL—Jagdalpur town (Kodhobhata), (October) Kartic 4th Suklapaksha, one day, fruits, vegetables, tobacco and fish, Bastar, on Magh full moon day, green vegetables and rice, Chapka. End of dark fortnight of Phalgun, Arrowroot, Gunav, sugar, tobacco and rice, Tirathgarh, Magh Purnima (bright fortnight), 3 days. Fruits, vegetables and flowers.

In KONDAGAON TAHSIL—Kondagaon, Phagun Astami 7 days, Keskai, Phagun Purnima, (8 days after the Kondagaon fair), 7 days, Bistrampuri, after 8 days of Keskai fair, Dhanora, after 8 days of Bistrampuri fair, rice, vegetables, tobacco, potatoes and pulses.

In ANTAGARH TAHSIL—Antagarh, Magh purnima, Narayanpur, Phagun Purnima, rice, pulses. In DANTEWARA TAHSIL—Dante-wara, Phagun Purnima, 3 days, rice, pulses and ghee. In BIJAPUR TAHSIL—Bijapur, (Chikatraj Fair), Phagun Purnima, 1 day, rice, pulses and ghee. In SUKMA ZAMINDARI—Ramaram, Magh Panchami or Dasmii, 3 days, rice, pulses, and ghee. In BHOPALPATMAN ZAMINDARI—Sakalnarayan, during the fortnight immediately after the holi festival. Rice, pulses, ghee, tikur, tamarind and lac.

#### BHARATPUR STATE.

The BHARATPUR STATE (area about 1972 sq miles, population 5,75,625 according to the census of 1941) in Rajputana lies in the North-east of Rajputana between Lat 26-43° and 27-50° and Long 76-54° and 77-48°, the extreme length and breadth being 76 and 48 miles respectively and is divided North and South almost into two equal parts by the metre-gauge line of the B B & C I Railway whose direction is due East and West.

**INDUSTRIES**—The State is well known for its red and white stone quarries. The red stone is suitable for slabs, flooring and ornamental purposes. It is easily worked and has a rich handsome colour. Large quantities of this stone were used in Agra and Delhi forts and it has also been used to a great extent in the construction of New Delhi. The white stone, which is more correctly a cream coloured stone, is of a harder texture than the red stone and is used principally for ornamental work and has also been employed in the Agra and Delhi forts and in New Delhi. It can also be used as slabs for flooring purposes. In addition to these main uses, these stones are used for the manufacture of mill stones which are sent to various parts of India. Generally the product of these stone quarries is eminently suitable for architectural work.

Carpet and durrie manufacture and cotton and silken cloth weaving are of fair importance. The products of BALLABHGARH and BHU-SAWAR both in Weir tehsil and Nadbai are of very superior grade.

**CATTLE BREEDING**—The State is well known for its Mewat breed of cattle. Eight cattle fairs are held in at different times of the year—at Weir (June-July), Jhil-ka-Bada (Bayana) (April), Rupbas (January-February), Nadbai (December), Nagar (April), Kaman (July-August) Dig (August-September) and Bharatpur (September-October). The most important of these is at the last mentioned place. This fair is of all-India importance. Cattle purchased in the State are taken to such distant places as the extreme ends of the United Provinces and even beyond. A regional show of cattle was held by All-India Cattle show.

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(Delhi) at Bharatpur in October, 1942 From among the dairying products, ghee is exported in enormous quantity to distant places including Hyderabad (Deccan)

**CROPS** —The chief crops are bajra (149,093 acres), gram (134,711 acres), jowar (78,036 acres), wheat (56,124 acres), barley (41,094 acres) sesamum (22,030 acres) rape and mustard (30,886 acres), white zira (cumin seed) and spices (18,591 acres), tobacco (2,240 acres) Grass for fodder purposes grows abundantly in the State

**TRADE** —The State exports chiefly oil-seeds, cumin seed, gram, mung, mash and other pulses The chief markets are BHARATPUR, NADBAI, (both on the B B & C I Railway), DIG and KAMAN

#### BHAVNAGAR STATE.

The State has a population of 500,274 in an area of 2,960 sq miles It is a first-class Indian State in Kathiawar and is one of the wealthiest states in the province About half of the area is regar or black cotton soil There are 13 towns and about 700 villages in the State The capital of the State is BHAVNAGAR which is the chief town and an important port on the Gulf of Cambay There is anchorage eight miles away from the port proper and the goods are moved from the steamers in lighters The port itself has accommodation for small coasting steamers The town is the terminus of the Bhavnagar State Rly MAHUWA, SIHORE, BOTAD, and TALAJA are other important towns in the State besides BHAVNAGAR

The chief product of Bhavnagar is the Bhavnagar cotton which is of good quality Grains, salt, etc., are also obtained and there is a good and booming trade in these articles

BHAVNAGAR Port has got all modern facilities and is connected by rail Chief industries of the State consists of 3 cotton mills, 5 weaving factories, 1 rubber factory, 1 indolite factory, 2 chemical works, 1 horn crushing factory, 1 silk mill, 1 match factory, 1 cement tile factory, 1 hosiery factory, 4 oil crushing mills, 1 hume pipe factory Besides these there are 31 oil mills, 61 ginning and pressing factories, 114 flour mills, and 22 printing presses There are also several small-scale industrial concerns employing manual labour, which produce sugarcandy, copper and brass utensils, chemicals, soap, wood furniture, cotton thread, gold thread, battery cells, trunks and buckets, wooden and ivory toys

The state has launched various schemes of water supply and irrigation The village panchayats and the cooperative credit societies are doing very useful work in improving the economy and social life of rural areas

The trend of the total trade of Bhavnagar during the last three years is shown below —

Year	Rs
1938-39	4,70,25,075
1939-40	3,30,97,629
1940-41	2,80,33,045

#### BHUTAN.

A free State on the border of India, BHUTAN is mostly hilly and is inaccessible except in the southern part The market of Bhutan continues for about 4 months like melas where the products of the place are sold to foreigners and the local men receive foreign and Indian made articles in return

The articles of trade in the hat are ivory, rubber, honey, oranges, lac, timber, musk, ghee, wax, blanket, endi and silk cloth, tails of bison, etc These articles are generally sold cheap on market day and the

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business is very profitable Chief exports to India are ponies, mules, blankets, wax, butter, sticklac, and cattle while the chief imports from British India are cotton, piecegoods, metals and tobacco leaf

There are also rubber trees and plantations, which are locally known as Bansibat Owing to the hilly nature of the country grains and seeds cannot be grown largely and so these have to be imported

#### BIKANER STATE.

The State, with an area of 23,317 sq miles, is the second largest State in Rajputana Its population is more than a million and a quarter The population of the capital is 1,27,000, and it is the third largest city in the whole of Rajputana The official languages of the State are English and Hindi, while the bulk of people speak Marwari

The greater portion of the State consists of sandy tracts or is traversed by undulating high sand hills with valleys in which cultivation is done The average rainfall is about 12 inches per year The northern portion is, however, very fertile and since the advent of the Gang Canal there has been considerable rise in the area under commercial crops There are no perennial rivers in the State but a small portion in the North-East and East receives some irrigation from inundation of Ghaggai and Kathi rivers during the rainy season The chief crops are bajra, moth, jawar, wheat, cotton, sugarcane, gram and faramira.

With the development of the State Railway, export and import trade has steadily grown The chief article of export is wool which is of a superior quality and fetches better price in the English Markets than other Indian wools One wool baling press, one wool cleaning factory, a flour mill, an ice factory, and a soap factory have been established at the capital Considerable industrial development has also taken place at GANGANAGAR, the headquarters of the Gang Canal colony area, and several cotton-ginning factories, flour, pulse-grinding and oil mills, together with an ice factory, two rice hullers and an open pan sugar factory are already working A large Vacuum Pan Sugar Factory is also about to be established

The most important mineral worked in Bikaner State is lignite at PALANA, 14 miles south of Bikaner, and the output of coal mined there, during 1940, was 41,710 tons Fire clay, fuller's earth and limestone are also found in the various parts of the State The red sand stone of DULMERA is used extensively in Bikaner and further markets are being sought for it outside the State Gypsum is found in considerable quantities at JAMSAR 25 miles to the north of the Capital, and is extensively used in the State Gypsum being an important constituent of cement, a great future lies for the manufacture of that commodity in this State

Mandis or grain markets, which are connected by rail, have been established at GANGANAGAR, KARANPUR, RAISINGHNAGAR, GAJ-SINGHPUR, KESRISINGHPUR, BIJOYNAGAR, HINDUMALKOTE, SANGARIA, SADULPUR, LAKHUWALI, NOKHA, and GOGAMERI. Prospects of opening of further mandies at suitable centres in the eastern districts of the State have been rendered bright with the recent opening of a new chord line of the State railway, joining Sadulpur with Rewari and passing through Loharu, Jaipur, Patiala and Nabha States territories

Fairs:—Cattle fairs are held annually at Gogameri, Ganganagar and Kolayat The Gogameri fair is held in August or September and a brisk trade in camels and other cattle specially bullocks is carried on The Ganganagar fair is held on dates fixed mainly for the exchange of cattle, but the occasion is also utilised for various other useful pur-

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poses, such as, improvement in co operative methods and agricultural operations. The Kolayat fair is usually held in November.

Recently a separate department has been set up and organized to develop cottage industries in the State for which suitable raw material exists

### BUNDI STATE.

The BUNDI STATE has an area of 2,200 sq miles and a population of 216,722. It is one of the most ancient and premier first class States in Rajputana. The Court language is Hindi.

The State is traversed by a double line of hills and has four passes. The crops raised during the rains are maize, jowar, (87,000 acres), mung, wheat (70,000 acres), barley, gram (35,000 acres), opium, linseed (18,000 acres), rapeseed (19,000 acres), etc., are grown during the cold season. Cattle, ponies, sheep and goats are available here in considerable number. There is a cotton press at DEOLI.

The chief exports from the State consist of cotton, oil seeds, pulses, opium, hides, gum, wool and ghee and the main articles of import are piecegoods, sugar, rice, salt and metals. NASIRABAD is situated about 90 miles off the capital and the Baran-Ajmer branch runs close to the capital.

BUNDI (population 22,000) is one of the picturesque towns in Rajputana, being surrounded by wooded hills.

### CENTRAL INDIA STATES.

Central India possesses soil of every class from rich black cotton soil (covering the greater part of Malwa) to the dry stony red earth (met with near Bundelkhand). The principal crops of Central India in 1,000 acres are—Rice (90), wheat (2,244), barley (66), cholum (1,104), bajra (142), maize (126), gram (398), pulses (375), linseed (85), sesamum (172), groundnut (24), condiments and spices (16), cotton (1,090), fodder crops (211), sugarcane (17), sunn hemp (10), arhar, kutki, urid, masur, barley and sunn. Betel, ambari tobacco and poppy are also grown. All the usual spices and vegetables met with in Northern India are grown here. The deciduous forests of Central India produce timbers, fruits or sap (mohua, khair and sal).

Diamond and coal are obtainable here on the Gondwana rocks in the south of the REWA (Umaria), copper is found at BARDI and TAGWA in Rewa, lead at BARGOA near Bardi and also in SEONDHA hills in Datia, iron throughout the Vindhya rocks near HIRAPUR in BIJAWAR STATE (once a famous centre of iron smelting), near BAWALIHA in INDORE and manganese in the GWALIOR STATE and in JHABUA.

Central India is usually rich in materials of construction, viz., building stone (sandstone of the Vindhyan series). NEEMUCH and SUTNA limestones are exported in considerable quantities. KYMORE sandstones of BHOPAL are of deep, purplish red colour and match with those of Mirzapur and Chunar in quality. Corundum is worked in REWA, asbestos in the BHOPAL area and diamond is found in the neighbourhood of PANNA. Agates and jasper are also found.

Central India was once famous for its fine cloths and muslin produced at several places in MALWA. Saris and dhotiyodas of MAHESWAR have a considerable sale. The ordinary country cloth is made in many places. The manufacture of Malwa opium has declined. There are altogether 15 cotton mills in the Agency, chiefly in Gwalior and Indore. These are equipped with 313,572 spindles and 8,339 looms and are progressing well.

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The chief imports to the Agency are salt, sugar, ghee, kerosene oil, hardware, machinery, piecegoods, arms, oilman's stores and wines. The exports are gram, cotton, oil seeds, opium, poppy seed and hides, a certain amount of timber from the eastern part of the State and building stone and Neemuch limestone are also exported.

### COCHIN STATE

COCHIN STATE lies in the South-west of Peninsular India with the natural division "Malabar and Konkan" bounded by the Arabian sea, the State of Travancore and British Malabar. The area of Cochin including its lagoons and backwaters and its extensive forest tracts is 1,480 sq miles and its population is 1,42,200 (1941 census)

The State enjoys the benefits of both the South-west and North-east monsoons

Agriculture is the main occupation of the people. 54 % of the total area of the State is under cultivation. Paddy is the chief agricultural product. On the coastal regions there are large coconut plantations. The other minor agricultural products comprise ragi, peas, beans, tapioca, banana, etc. Arecanuts and cashewnuts are also important products of the State. There are 11,967 acres of land in the high-lands under rubber plantations, 1,993 acres under coffee and 1,647 acres under tea.

About a third of the total area of the State is covered by forests of the monsoon type which abound in valuable species of timber such as teak, rosewood, irul, etc. Nux-vomica, cardamom, honey, wax, grass, bamboos, etc., form the other minor forest products. These forests provide fuel for domestic use and also for the working of many locomobiles in the State. There are various species of soft wood in the forests and these are useful for the manufacture of packing cases.

Coconut oil pressing and coir work are the two main industries based on the coconut palm. There are about 651 power driven chucks and one expeller working in the State, besides a number of chucks driven by bullocks. Coir industry is largely carried on on a cottage basis though there are five factories processing coir yarn into mats and mattings. Government have recently started a Central Coir Depot at MATTANCHERY (Cochin) with a view to protect the small-scale producers of coir yarn. A few coir factories have also formed themselves into an Association called the Cochin Coir Manufacturers' Association in order to have a responsible body to undertake large supplies of manufactured coir goods.

Ceramic industry is next in importance to oil pressing and coir works. The existence of large deposits of clay in the central regions of the State is responsible for the starting of a number of tile factories. There are at present 30 tile factories and their total production during the last official year was 11½ million tiles and bricks. The Cochin Potteries at CHALAKUDY manufacture glazed wares such as pickle jars, bung jais, stew pots and many other useful household utensils. There are two large textile mills with a total number of 50,000 spindles and 400 looms. Besides, there are about 3,000 hand looms working in the State. With a view to market the products of the State a Cochin Cottage Industries Co-operative Marketing Society has been started at Trichur. There is a carving workshop attached to the Office of the Director of Industries and Commerce, Trichur where caskets and other articles of high workmanship and artistic value are made to order under Government management.

The other important industries of the State are arecanut curing, fish curing, furniture making, grass and bamboo mat making, bell-

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metal casting, etc., etc. A rubber factory has been started recently where teats, valves, balloons, etc. are being manufactured now.

The Cochin State Railway runs from one end of the State to the other i.e., from Shorannur to Ernakulam, connecting the important commercial centres with the other parts of India. This railway has been extended to the Cochin Harbour.

In order to facilitate the easy exploitation of the forest produces the State has constructed a tram line, 48 miles in length, which connects the interior of the forests with the Railway of Chalakudy.

The COCHIN HARBOUR is one of the major ports on the west coast. It is the easiest port for the export and import trade of South India with western countries. The chief exports at this port are ropes, coir mats and mattings, rugs, coconut oil, copra, oil cake, ginger, pepper, cashewnuts, etc., etc. The chief imports are rice, paddy, piecegoods, hardware, stationery articles, etc. ERNAKULAM is the capital of the State and the seat of Government. TRICHUR, TRIPPU-NITHURA, IRINJALAKUDA, KUNNAMKULAM, WADAKKANCHERY and CHITTUR are the other important towns and trading centres.

**Fairs:**—The Trichur Pooram which comes off during the period from 15th March to 15th April annually is a festival during which thousands of people from far and near gather in the town and transact business. During this Pooram week an All India Swadeshi Exhibition is also being usually held.

#### COOCH BEHAR STATE.

Cooch Behar State (area, 1,318 sq. miles, population 6,39,898, language, Bengali).

The staple crop is rice. Other food-crops are cheena, kaon, maize, mung, masur, khesari, thakari, kulthi, arahar and oil seeds, all of which are extensively cultivated. The tobacco of Cooch Behar enjoys a high reputation and was sent to Burma for making cheroots. Now Virginia tobacco is being widely grown for the Cooch Behar Tobacco Co. Jute is widely grown (HALDIBARI and CHAURAHAAT being important centres). Sugarcane is also cultivated.

Rough cloth from silk and endi worms is woven. Excellent gunny cloth is made at MEKHLIGUNJ. Ghee and mustard oil are made in large quantities.

The chief exports are tobacco, jute, rice, mustard seed and oil, and the chief imports are piecegoods, kerosene oil, salt, sugar, molasses, brass, copper and earthenware utensils. Some trade is conducted with Dacca by river. Rice is sent to the Duais and to Sirajgunj by boat. The Tista is navigable and the State is well served by railway. There is an agricultural farm in the Cooch Behar town, which has been usefully demonstrating new and modern methods of cultivation of various crops, and distributing free seed to the agriculturists. The Industries Department of the State has arranged for training of local candidates in jute textiles, soap making and metal casting and polishing in a Central Institute in the town. There is a Weaving School maintained by the State for the training of boys in cotton, silk and wool weaving. A nursery has been added to this Institution for supplying seed of improved varieties of eri worms to local rearers. Carpentry and smithy are taught in the local Artisan's School. There is a Model Dairy Farm in Cooch Behar Town which supplies pasteurised milk to the State and the surplus to the public.

**Major industries**—Industries such as cigarette and paper manufacture are being started under State auspices. A new Electric Power Station has been opened at DINHATA in addition to the one already existing at Cooch Behar, so as to facilitate industrial development.

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Road development within the State is proceeding on a planned basis, and good cement concreted roads are being constructed speedily. This will give an impetus to the industrial development in the State

#### CUTCH STATE.

The STATE, with an area of about 7,676 square miles, has a population of 513,829 who speak Cutchi and Gujrati. Wheat and barley of different qualities are cultivated. Cotton, grains and pulses are also grown, besides many other garden products and vegetables of all varieties.

Trees in Cutch are limited in number, prominent trees being neem, pipal and babul, which are met with near the villages. Mango trees require great care here. The state of Cutch is also famous for its houses.

Among minerals, iron and coal are found in the State but iron is no longer smelted and worked, so also is the case with coal the bed of which being very thin cannot be mined. Alum and a coarse variety of saltpetre are also found. Yellowish marble of good quality is also found in the State at KHAVDA.

Trade of Cutch is mostly carried by sea. The chief imports are grain, butter, sugar, groceries, fruit, and timber, and of manufactured articles iron, brass and copper ware, cloth, furniture, stationery and ivory goods are worth mentioning. The exports from the State consist of alum, cotton, millet, pulse, garlic and silver ware. In addition to the beautiful embroidery and silver work for which Cutch is chiefly noted, its manufactures of silk and cotton (cloth) are of some importance.

MANDVI (Population 25,000)—It is the chief port of Cutch. Steamers from here sail to Arabia, Maskat, Sind, Kathiawar, Bombay and Malabar. This is a port of call of all steamers in the British India line. There are two light houses.

ANJAR (population 20,000)—There is a temple with the image of Jaipal, the brother of the Chauhan Prince of Ajmer, on horseback, and it is said that he built the town.

BHUJ (population 27,000)—There are Post Office, Central Jail, Library, School of Art, High School, Hospital and Dispensary. The place is chiefly interesting for its archaeological monuments.

JAKHAN (population 6,000) carries on a large trade with Bombay exporting grain and importing piecegoods, groceries, timber, sugar, oil and dates. It will be a port of some value in the near future.

NALIYA (population 7,000) is a most thriving town in Cutch. The residents of this place are generally retired merchants who have made their fortune either in Bombay or in Zanzibar and have settled here for the rest of their lives.

#### DHAR STATE.

DHAR STATE (area 1799 3/4 sq miles, population 253,258; languages—Hindi, Marathi, Nimadi, Malwi)—Chief crops are wheat, gram, cotton, oilseed and ajwan. Cotton ginning and pressing is done at different ginning and pressing factories. There are 20 ginning and 4 pressing factories. Cotton weaving is largely practised in towns and villages. Printing of cotton fabrics in various colours is done at various places including DHAR, which is 33 miles west of Mhow Railway Station and at KUKSHI. Oil pressing in country presses (Ghanis) is an important cottage industry. Darbar have recently granted permission to start a large oil mill with side industries like soap manufacture, varnishes, etc. A bidi factory is also in the formation. Permission and certain concession to start a thymol factory has also been

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given. A State Bank was opened on the 21st October, 1941. Bids are made from tendu leaves, which are available in abundance in the State forests. Besides the manufacture of agricultural implements ornamental wooden work is turned out at DHAR and GUJRI. Toys are made and lacquered in bright colours. Tanning, jaggery-making are also done. The chief imports are rice, salt, groceries (from Bombay and Indore), cloths (Nagpur, Ahmedabad, Indore, Madras), silk textiles, lace (from Poona), hardware, stationery, books, coconuts, piecegoods, etc. The chief exports are wheat, gram, cotton, jowar, oilseeds, crude thymol, to the neighbouring States and Bombay. Ginned cotton is exported to Indore and Bombay, oil seeds to Bombay, tobacco to Indore and Marwar. The chief centres of trade are DHAR, BADNAWAR, KUKSHI, and DHARAMPURI. The latter two towns attract customers from Khandesh, Berar and Gujrat.

**Fairs**—January—Peer Sadrudin and Badruddin (Nalcha-Dhar). February—Sitamata at Pipri (Nimanpur-Dhar), Peer Biyabani of Chittri (Kali Baori-Dhar), Peer Biyabani at Islampur (Dhar), Shri Nageshwar at Badnawar, Shri Dhareshwar Mahadeo, Maha Shivratri (Dhar). March—Peer Dawalshah (Kotbhidota); Shri Khanderao (Khiledi-Badnawar), Shree Khanderao (Thikri-Dharampuri), Shree Narsinghji (Indrawal-Badnawar), Phul Dol (Bidwal-Badnawar), Peer Balema (Sewra-Dhar), Phul Dol (Kachi Baroda-Badnawar), Phul Dol (Tilgara-Badnawar), Phul Dol (Multhan-Badnawar), Phul Dol (Dotria-Badnawar), Phul Dol (Badnawar), Phul Dol (Kanwan Badnawar), Peer Dudha Dhar (Miyapura-Dhar). April—Peer Dawalshah Jnapura (Dhar). May—Kotnath (Kod-Badnawar), Shri Hanumanji (Bakhatgarh-Badnawar), August—Koteshwar Somwati Amawasya (Kukshi), Dhardi Kund Somwati Amawasya (Nimanpur); Sansthan Bet, Somwati Amawasya (Dharampuri). October—Kamla Punam (Dhar). November—Kotnath (Kod-Badnawar), Shri Hanumanji (Bakhatgarh-Badnawar). December—Shree Bheruji (Multhan-Badnawar); Shree Bheruji (Lingwa-Kukshi).

Most of the above are religious fairs but they also contain agricultural and industrial sections in which improved implements, better types of seeds, articles of every day use of the Household etc., are exhibited. The fairs at Lingwa, Chittri, Dhareshwar and Punam (Dhar) attract shops from distant places.

The cattle show at Kanwan (22 miles from Dhar) is held every year from June to October and attract customers from different parts of Central India, Khandesh and Berar.

### DHRANGADHRA STATE.

The State has a population of 88,961. Its area is 1,167 sq miles exclusive of the area of the Dhrangadhra portion of the Runn. It is a first-class State. The capital town is DHRANGADHRA on the Runn of Cutch.

The soil is eminently suited for cotton cultivation, though grains of all kinds are also grown. The Dhrangadhra cotton has a reputation of its own for purity of strain and length and quality of its staple.

The State possesses unlimited resources for producing a very high grade salt resembling sugarcandy. A very large factory for manufacturing soda alkalis as bye products from salt has also recently been erected by the State being the first venture of its kind in India. Other manufactures are magnesium chloride, copper and brass utensils, stone ware grinding mill stones, handmade cloth, snuff, etc. There are 4 ginning factories and one cotton press in the State.

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## MARKET PLACES OF THE INDIAN STATES 563

The State owns a metre-gauge Railway of 41 miles from Wadhwan Jn to Halvad besides a siding of 14 miles connecting the Salt Works at Kuda with Dhrangadhra

### DEHROL STATE.

The principal crops of the State (area, 282 7 sq miles, population, 27,652) consist of sugarcane and grains, and molasses are largely exported. Coarse cotton cloths are woven by handloom to a small extent. It is a second-class State, 23 miles north-west of Rajkot and 23 miles from east of Jamnagar.

### EASTERN AGENCY

The EASTERN AGENCY consists of a number of dependent territories including the following States: Athgarh (50,148), Talcher (69,631), Mayurbhanj (886,745), Nilgiri (68,598), Keonjhar (460,667), Pal-Lahara (27,957), Dhenkanal (84,328), Athmalik (64,276), Hindol (48,897), Narsinghpur (40,882), Baramba (46,689), Tigiria (24,830), Khandpara (77,930), Nayagarh (142,399), Ranpur (47,713), Despaha (42,650), Band (135,248), Bamra (151,259), Rairakhol (35,715), Sonpur (237,945), Patna (566,943), Kalahandi (513,675), Gangpur (356,388), Bonal (90,144). They have a combined population of 4,461,675 and a total of about 30 thousand square miles.

**CROPS**—The States form a succession of hill ranges rolling backwards towards Central India. The intermediate valleys yield rich crops in return for neglectful cultivation and a vast extent of land might be reclaimed on their outskirts and lower slopes. Cultivation is, however, rapidly extending in all the States, owing to improved means of communication and to the pressure of population in the adjoining British districts. The principal rivers are the Mahanadi, the Brahmani, the Baitarani, the Burabaling, the Ang and the Tel.

The staple crop is rice, of which generally speaking two varieties are grown, viz., *aus* or *bah* reaped in September and *aman* or *sarad*, the late winter rice. This principal food crop is supplemented by millets, such as *china*, *mandia* or *marua*, etc., and maize and pulses form a large portion of the dietary of the people, including *birhi*, *mung*, *kulthi*, *ahar* and *gram*. The chief oilseeds grown are mustard, sesamum and castor seeds, castor oil being sometimes used by the poorer classes for cooking. Sugarcane is extensively cultivated and a considerable export trade is carried on in the sugar manufactured. Wheat grows luxuriantly in the hill area of the Kalahandi State. Cotton is largely grown, but is mostly of an inferior quality; a good deal of it is locally manufactured for home use, but certain quantity is exported. Tobacco is raised on the rich silt deposits of rivers and near homesteads, where cattle manure is plentiful. Turmeric is extensively grown for export and all the ordinary vegetables are cultivated, the commonest being the brinjal or egg-plant and pumpkin. The forests produce various edible roots, such as the large yam (*kanda*), arrowroot (*tikhuri*).

**MINERALS**—The basin of sedimentary rocks known as the Talcher coal-field extends about seventy miles with a general breadth of from fifteen to twenty miles. It comprises nearly the whole of Talcher, and a considerable portion of RAIRAKHOL, with smaller parts of ATHMALIK, and DHENKANAL. In several places in the Talcher field, iron is worked. Sometimes the iron stones of the Damodar beds are used, but more frequently surface concretions, the supply of which is necessarily limited. The method of smelting the iron in small

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furnaces is similar to that in use in other parts of India, but the bellows employed are worked with the foot. The KEONJHAR State is believed to contain good deposits of iron. The enormous resources of iron ore in the GURUMAHISINI hills in MAYURBHANJ State are well known and are exploited by the Tata Iron & Steel Co at Jamshedpur. Lime stone quarries are worked near BISRA along the bank of the Koel river in the north eastern portion of Gangpur. Lime of excellent quality is produced and exported to Calcutta and elsewhere. Deposits of manganese are found in several parts of this State. Graphite of good quality is found in KALAHANDI State. Graphite is also found in ATHMALIK and PATNA. Bauxite is found in this State as a superficial deposit. Dolomite deposits in GANGPUR State have been worked. Manganese in fair quantity is found in the same State. The granite quarries in the NILGIRI State have been exploited. The hills bordering on BALASORE consist entirely of metamorphic rocks of various kinds. A kind of black magnesia rock intermediate in composition between potstone and serpentine, approaching the former in appearance, but less greasy in texture is quarried to some extent chiefly for the manufacture of stone dishes, plates and bowls. The stones are roughly cut into shape in the quarry, and finished, partly with tools and partly on a lathe, in the village. Coal is mined in KOREA State, TALCHER State and RAIGARH State, the total output being 1,048,364 tons, 440,137 tons and 2,700 tons, respectively in 1939.

**CATTLE** —Buffaloes and bullocks are employed in ploughing, cows and she-buffaloes are prized for their milk.

**INDUSTRIES** —Sericulture is also being carefully and scientifically carried on in the States of MAYURBHANJ, DHENKANAL and KEONJHAR, both shrub and tree mulberry are grown.

The States are not remarkable for any very special manufacture, at KANTILO in the KHANDPARA State and in the NARSINGPUR State a considerable manufacture of brass utensils is carried on, these find their way throughout the States, but are entirely of the ordinary pattern and in no wise remarkable either for design or workmanship. The next most important industry is the weaving of tassar cloth at SONPUR and BINKA in the SONPUR State.

Silk and cotton cloth of excellent quality and artistic pattern are manufactured at MANIABANDHA in the BARAMBA State in the States of RAIRAKHOL, and ATHMALIK a considerable number of blacksmiths find occupation in smelting iron, which is of excellent quality and highly valued. In BAND, DASPALLA, DHENKANAL, KHANDPARA, MAYURBHANJ and TALCHER blacksmiths make for local use, iron implements, such as axes, bill-hooks, crowbars, shovels, spades sickles and knives, some of which are very well turned out. In DHENKANAL and NAYAGARH ivory work of good quality is still made by two families, and in BAND there are skilful silversmiths. In BONAI (the Bhumij) fashion utensils are made from the soap stone found there, and similar vessels are manufactured in the NILGIRI State. In almost all the villages of the States are found the local cotton weavers, the cloth woven is very coarse, it is however, very much more durable than the mill-made article. The villages are self contained with their own blacksmith, potter, carpenter, etc.

Traders in the States are represented by itinerant dealers from the British districts, there are but very few local traders. Trade is carried on principally in rice, pulses, oil seed etc, and timber and other forest produce in return for salt-dried fish, imported cotton piecegoods, cotton

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twist and kerosene oil, tassar, cocoons are also exported. There is a considerable export trade in hides and horns. Most of the export and the import trade is carried on with Cuttack and to a smaller extent with Balasore, Puri and Sambalpur.

#### GONDAL STATE.

The State of GONDAL covers an area of 1024 sq miles and is peopled by 244,514. Rainfall is 20 to 25 inches on an average.

As agriculture is the main occupation of the majority of the people, the chief items of trade are field-produce viz, groundnuts, cotton, food grains and sugar-cane. There is a brisk trade in ground-nuts. Expellers and oil mills are daily threshing out tons of seeds and extracting maunds of oil in GONDAL, DHORAJI, UPLETA and BHAYAVANDAR. The oil is partly consumed in Kathiawar and partly exported. The principal article of trade is food grains. The grain market at Gondal has become a flourishing trade centre.

**HANDICRAFTS**—There were 1,046 hand-looms for weaving cotton and 144 looms for weaving wool. The craft of hand-loom weaving has by no means fallen an easy victim to the competition of mills as had been feared by many. The work is often more durable and designs more acceptable than those produced by the textile mills. Wherever there are hand-loom weavers there are found Khattris—professional dyers of cloth, Bhavsars—calico printers and Bandhni workers.

Embroidery on silk and cotton cloth in gold, silver and silk thread is produced at GONDAL and DHORAJI. Wearing of embroidered silk is a fashion with the Mahomedan ladies and gentlemen. Such silks are worn by Hindu ladies only on festive occasions.

Weaving of woollen blankets is carried on in several parts of the State. Gondal produces good quality of wool. It is usually cleaned by the Mussalmans Pinjaras and is warped and sized by the weavers. The best blankets are the Dhooblas of DHORAJI.

DHORAJI is famous for its wood work turned on lathe, cots, cradles and toys. Blankets are woven. Country carts and implements of agriculture are made in many large villages.

**WATER WORKS AND IRRIGATION**—Two large tanks have been constructed at Gondal and Paneh Moti for irrigation purposes. Filtered drinking water has been provided for the towns of Gondal and Upleta.

**TAXES**—The customs and octroi duties have been abolished.

**POWER INDUSTRIES**—There are hand-mills for corn grinding and pounding and husking rice at GONDAL and DHORAJI. Brass-foundry at GONDAL turns out parts of heavy machinery, and articles of furniture. Nut-crackers made in this foundry are in great demand in several parts of India. A sugarcandy concern at UPLETA manufactures crystal sugar. There are 2 cotton presses and 9 ginning factories in the State. The ice factory at GONDAL manufactures and supplies pure ice to the Gondal and Dhoraji divisions. Tanneries are owned by Mahomedan merchants at UPLETA, DHORAJI.

Stone quarrying is an old industry of the State. Out-put of lime and black stone is very large, but the great distance of quarry pits from the markets hitherto came in the way of the development of this industry. To remove this inconvenience the State has constructed a railway siding connecting the quarry pits with the main railway line.

Of the total area of 42,400 acres covered by forests, 11,000 are grass reserves. GONDAL owns 126.08 miles of railway from Dhasa to Jant.

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Jodhpur with its KUNKAVAV-BAGASAR and KUNKAVAV-DERDI extensions and has a six annas-share in JETALSAR-RAJKOT Railway

A match factory has been started at Gondal. There is also a soap factory at Goadal producing good soap

**ELECTRICITY**—Electric power has been supplied to flour mills cotton presses, ginning factories and groundnut expellers Electricity has been brought to village and applied to the same purpose

### **GWALIOR STATE.**

GWALIOR STATE lies in Central India between North Lat 22 10' and 26 52' and East long 74 38' and 77 38'. The State has an area of 26,430 sq miles and population of 35,23,070 persons.

Chief crops in 1939-40 were wheat (14,81,000 acres), jowar (14,73,000 acres), gram (7,51,000 acres), pulses (4,94,000 acres), bajra (3,05,000 acres), maize (2,06,000 acres), barley (1,11,000 acres), linseed (1,11,000 acres), sesamum (2,70,000 acres), rape and mustard (34,000 acres), flax and hemp (44,532 acres), cotton (5,46,247 acres), sugarcane (19,127 acres).

The State is rich in minerals such as bauxite, iron ores, manganese ores, galena, copper and iron pyrites, green-earth, pottery clays, ochres, mica, limestone and other materials viz, quartz, and stone, reh, and saltpetre for the manufacture of glass

The chief trees generally found in forests are teak, salar, lac, tan nins, acacia, cutch (Khair), adina cordifolia (Haldi), bassia latifolia (Mahuwa), dalbergia latifolia (Kali Sesame), bombax malabaricum (Semal), sterculia urens (Karai), Amaltas, dashmul, wax, pitpara, musli safed and siah, gums, tejpat, harsingar, chironji, tendu, oil yielding and colour dyeing plants and a good variety of grasses are also found in the Forests

The area, occupied by the Forests amounted to 21,18,948 acres in the year 1937-38

There are 489 industrial concerns in the State, of which 152 are ginning and cotton presses Other chief companies are—Gwalior Engineering Works; (Lashkar), Gwalior Leather Factory & Tent Factory (Morar), Gwalior Potteries Limited (Lashkar); Gwalior Electric Supply Co, (Lashkar, Shivpuri, Sheopur, Ujjain, Shajapur), Alijeh Darbar Printing Press (Lashkar), Jayjirao Cotton Spinning and Weaving Mills Ltd, Gwalior, Motilal Agarwal Spinning and Weaving Mills, Gwalior, Hira Cotton Spinning and Weaving Mills, Ujjain, Binor Cotton Spinning and Weaving Mills Ujjain, Deepchand Cotton Spinning and Weaving Mills, Ujjain, Nazarali Cotton and Spinning and Weaving Mills, Ujjain, Malwa Hosiery Factory, Ujjain, Tobacco Factory, Lashkar, Stavardis Carpet Factory, Lashkar, Gwalior Taxidermy, Lashkar, Nib Factory, Lashkar, Gwalior Gota Factory, Lashkar, Gwalior Cement Company, Banmore; Imperial Match Factory, Gwalior, Scindia Sugar Mills, Dabra, Onkar Flour Mills, Ujjain

**LASHKAR**—It is the seat of the Government. It is an important trade centre for wheat, fodder, fruits and vegetables, grains and pulses

**BHILSA** has a mandi (market) for wheat flour, gram, pulses, wheat, sesamum, etc

**SHIVPURI** is a famous health resort and an important trade centre for cotton piece goods, oilcakes, fodder, wheat, etc

**BEHIND**—Manufacture of brassware forms the staple industry The place is famous for wheat, oil seeds and ghee

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## MARKET PLACES OF THE INDIAN STATES 567

**MORENA**—It is noted for trade in wheat, moong and ghee. There has been established a laboratory controlled by the State for testing, grading and packing ghee under "Agmark" seal.

**SABALGARH**—It is noted for wood carving, lacquer and metal works.

**SHEOPUR**—The place is famous for lacquer work and wood.

**GOONA**—Wheat and pulses form the chief exports.

**CHANDERI**—It is famous for the manufacture of fine muslins with borders and coloured silk and gold threads.

**UJJAIN** is situated in the centre of Malwa. Being the biggest cotton market in Central India and an industrial centre, it exports steam pressed cotton bales and cloth to foreign places. Besides, wheat, cottonseed and jowar are exported in large quantities.

**MADHAVNAGAR** is a mandi in Ujjain close to the Railway Station. Chief commodities dealt in the Freeganj (Duty Free Zone) are cloth, sugar, tobacco, kerosene oil, groceries and vegetable oils.

**MANDSAUR** is the chief market for opium, cotton and piecegoods.

**JAWAD** is a town famous for cloth dyeing industry and manufacture of bracelets.

**SHAJAPUR** is noted for gram, pulse, cloth printing and dyeing.

**SARDARPUR**—Chief commodities of trade are grains, pulses and cotton.

**Transport and Communications:**—G I P Ry and B E C I Ry lines traverse the State. Almost all important places in the State are now connected by metalled roads and their mileage amounts to 2,227. The roads are maintained under the Department of Public Works. Gwalior is an Airway station since November 9, 1937.

**Cattle Fairs**—In **GWALIOR**—Gwalior Agricultural Fair and Exhibition, 20th December to 10th January, Dhumeswar Fair, Dabra, Aghan Badi 5 to Sudi 5 (November). In **BHIND**—Shri Jagannathji fair, Meghpura, Soni P S, Chet Sudi 1 to Chet Sudi 15 (March), Mahadevi, Rameshwar, Ater, Bhind P S, Phagun Badi 14 to Sudi 14 (March), Mela Kalkadevi Baghel, Bhind P S, Balsakh Badi 1 to Sudi Punam (May-June), Ramlila, Bhandei, Chirgaon, Magh Sudi 5 to Phagun Badi 5 (February). In **MORENA**—Jayeshwar Mahadev, Ambath, near Morena P S, Phagun Badi 5 to Sudi 5 (February), Jaura, Phus Sudi Punam to Magh Sudi 5 (Jan & Feb), Nagaji, Porsa, Morena P S, Phus Badi Parwah to Phus Sudi 15 (Jan & Feb). In **SHEOPUR**—Siddhanath Baba, Bijapur, Magh Sudi 12 to Phagun Badi 5 (February). In **SHIVPURI**—Banganga, Shivpuri P S, Phagun Badi 10 to Sudi 5 (March). In **GUNA**—Shadora, Chet Sudi 15 to Balsakh Badi 15 (April-May), Kumbhraj, Gunaha, Magh Sudi 1 to Phagun Badi 1 (February), Maqsudangarh, Guna P S, Aghan Sudi 9 to Phoos Badi 12 (Dec-Jan), Jamner, Guna P S, Phoos Badi Amawas to Phoos Sudi Punaro (January), Raghogarh, Guna P S, Phagun Badi 1 to Amavas (January-February); Aron, Guna P S, Magh Badi Punam to Amavas (January), Bis Bhuja Devi Bajrangarh, Guna P S, Kuwar Sudi 5 to Kartik Badi 5 (Oct-Nov). In **BHILSA**—Ramlila, Bhilsa, Magh-Sankrat (5th Jan to 21st (food-stuff)). In **UJJAIN**—Jatashankar, Bagli, Indore P S, Shivratri Phagun (Feb-March); Shri Sayed Ali, Uchod, Indore P S, Chet Sudi 15 to Balsakh Amavas (April-May), Onkareshwar, Karanawad, Kartik Sudi 14 to Aghan Badi 5 (November), Bhorasa, Ujjain P S, Shivratri-Phagun (Feb-March), Ujjain. In **SHAJAPUR**—Bejnath Agai (Kartiki), Ujjain P S, Kartik Sudi 5 to Punam (November).

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Bejnath Agar (Chet), Chet Sudi 1 to Punam (April), Mahabir Swami, Kalapipal P S, Phagun Sudi 1 to Sudi 15 (February) Sidhaji, Shujalpur-mandi, Magh Badi 1 to Sudi 8 (January), Hanuman-garhi, Shujalpur-village, Baisakh Badi 8 to Sudi 15 (March-April) In MANDSAUR—Runija, Suwasara P S, Baisakh Badi 7 to Sudi 1 (April-May), Suwasara, Chet Sudi 1 to 10 (April) In SARDARPUR—Satmtra Devi, Bakaner, Magh Badi 30 Tuesday to Tuesday (February)

### HYDERABAD STATE

HYDERABAD STATE is an extensive Indian State in Southern India with an area of 82,698 sq miles and a population of 16,338,534 of which 12,099,358 Hindu, and 2,097,475 Mohamed

The northern portion produces wheat and cotton and the southern portion produces rice generally. The hills or ranges are often covered with forests and timber mostly acacia arabica

The crops of the State include rice, wheat, gram, pulses, jowar, bajra, ragi, maize, linseed, sesamum, groundnut, castor, sugarcane, sunn hemp, tobacco, fodder crops, fruits and vegetables, etc. Cotton is extensively cultivated in the black-soil district as well as in Teligana but the cultivators produce the short-stapled variety generally. The total area under cotton during 1939-40, 3,089,000 acres, 635,000 acres were devoted to rice crop, 1,250,000 acres to wheat crop, 387,000 acres to castor seed, 1,675,000 acres to groundnut, 463,000 acres to linseed. Pulses are grown everywhere. The total area under crops amounts to about 35,000 square miles. Oranges are extensively grown in and around AURANGABAD, OSMANABAD, PARBHANI and NIRMAL, mangoes are plentiful, and country and English vegetables are produced during the rainy season. Grapes are grown at DOULATBAD. In Sirpur, Tandur, Mahbubnagar, Warangal, Elgandal and Indur districts large areas of uncultivated land are still available (in Teligana)

**MINERALS**—The principal minerals found in the State are diamonds, gold and coal. Diamond occurs in the Kurnool series of rocks, gold in the Dharwar series and coal in Barakar series in the Godavari-Pranhita-Gondwana system. Output of coal during 1939 of the Singareni field was 1,214,568 tons. Iron ore occurs in the southern district of the State. Hematite ore has been located on the banks of the Nerbudda but has not been extracted in the absence of coal in the neighbourhood. Barytes, manganese and copper have also been traced.

Cotton weaving is carried on in every taluk (Saris dhotis and khadi). Series of silk are made at NALGONDA, RAICHUR, MAHBUBNAGAR, LINGSUGUR, AURANGABAD, INDUR, ELANGDAL, etc. and some of them are of extra fine quality. AURANGABAD and PAITHAN are noted for embroidery, gold and silver lace work, Khamkhwal (cotton and silk woven together with silver and gold) is obtainable at PAITHAN, AURANGABAD and BIJAPUR are famous for brocades of silver and gold on silk.

Tassar silk is woven at WARANGAL, MATHWADA and HASANPATI, NARAYANPET and KOSGI (Gulbarga Dt.) AURANGABAD is noted for silk ware, and bidii ware finely laid and polished with silver and gold are made at BIDAR town. Sword blades and other weapons are made at HYDERABAD, WANPARTI, GADWAL, KALHA-PUR, JAGDEOPUR, etc. Daggers, knives and cutlery of good quality are also made.

Attempts have been made both by the Government and the public for the production of useful industries such as starch, chemicals, steel

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products, carbon paper, drugs, etc. A number of jointstock companies has been floated during the last year. Among the new cottage industries following may be mentioned. Manufacture of clothing and tent fabrics, and table clasp knives. A number of technical centres for turning out skilled labourers has been established.

The manufacturing industry consists of ginning and pressing factories, 272 in number at AURANGABAD and JALAN, MAZALGAON and PARLI in Bidar, RAICHUR and YADGAR in Raichur, LATUR in Osmanabad, also in Warangal, Indur, Parbhani and Nader districts. There are six spinning and weaving mills. Cotton weaving industry receives active support from the State by means of debenture loans and the State is trying to produce good cotton for local consumption and export purposes. The mills are equipped with 1,24,308 spindles and 2,694 looms. Besides, there are a number of tanneries and flour mills in the Dominions. A paint factory has been started. There are State factories for the manufacture of tiles, alcohol, soap, etc.

The chief articles of export from the Hyderabad State are food grains, cotton, linseed, sesamum, groundnuts, castor seed, indigo, oils, timber, cotton cloth, yarn, hides, cattle and coal. The chief imports are mill-made cloth, yarn, raw silk, salt, refined sugar, dried fruits, betelnuts, horses, cattle, silver and gold, copper, brass, iron, timber, mineral oils, and opium.

Trade is principally with Bombay, Madras and the Central Provinces and Berar. Nearly 70 per cent of timber came from the Central Provinces, nearly 80 per cent of Indian-made piecegoods in boxes and bales, come from Bombay.

Cotton is the biggest cash crop and one of the main arteries of the State's economic life. Its price is one of the most important indices of the purchasing power of the masses. The total number of bales exported is 450,000 bales.

The next important commodity under exports is groundnut. The tendency is to export more oil than seeds. There is also a brisk trade in oilcakes. Export of Shahabad stone has been gradually falling off since the last few years, owing to increased use of cement.

The following places are also important commercially, NANDED, HINGOLI, SURAPUR, KOPAL, LATTUR, SERAM, SAHABAD, SADASEOPET, SIDDIPET, KARKHELI, KHANIMAMET and IDLABAD.

There is an extensive horse mart, and fairs are also held at MALGAON and other places. Weekly or monthly cattle and horse fairs are held in every district.

The internal trade much exceeds the external trade of Hyderabad. For purposes of export the products of the country are collected at important centres. The imports from the British territory are brought direct by rail or by carts of pack bullocks in the case of interior districts from such commercial centres as Bansi Sholapur, Ahmednagar, Kurnool, Adoni, Bellary, Bijapur, Jagayyapeta, Bezvada, Bhadrachalam, Rajahmundry and Chandarpur.

The chief channels of trade are the G. I. P. Rly (in W and S), Madras and East Coast Railway in the south and east, and these are connected with the Nizam's Railway, Hyderabad-Godavari Valley railway goes to Nanmad from the capital. A comprehensive schemes for the co ordination of rail and road transport is being carried on.

#### INDORE STATE.

The State occupies an area of 9,902 sq miles and has a population of 13,25,089. Hindi or Hindustani is the language spoken.

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Unlimited deposits of slate occur in Kanghetti and Rehti in the Rampura Bhanpura District. Iron ores of high quality are found in the Barwaha region. Limestone exists in abundance in the neighbourhood of iron ore mines. Another rare mineral discovered in the State is barytes which is used in the paint and varnish industry. It is also proposed to start a paper factory utilising the 60,000 tons of grass available in the Barwaha Districts.

The high land tracts of Malwa, with a moderate rainfall of 30 inches a year is the home of all ordinary crops. Sugarcane is now being cultivated on a wide scale and the starting of a sugar factory at MEHIDPUR is under project.

There are 28 towns with a population of 2,92,562 and 3,659 villages with 10,32,527 inhabitants. About 60 per cent of the rural population lives in small villages of less than 500 persons. The chief occupation of the people is agriculture. In the city, the chief industry is cotton.

Textile industry is now the chief industry in the State. There are 7 cotton mills employing 21,000 persons. These are equipped with 6,296 looms and 2,14,724 spindles. Along with the growth of the industry, the number of cotton ginning and pressing factories has gradually increased. With a paid up capital of Rs 15 crores the mills produce annually about Rs 2½ crores worth of cloth which records an expansion double its size in 20 years. They sold 4,35,75,632 lbs of cloth during the year under report. The ginning factories ginned 28,00,916 maunds of cotton, as against 21,36,840 maunds in the previous year. There are 196 flour mills and 40 other small factories such as oil expellers, iron and brass foundries, metal works, etc. Recently a small sugar factory on the open pan system was started as a private concern. The handloom industry of MAHESHWAR is famous. Another important cottage industry is the blanket weaving industry of MANASA. There is also a big hosiery factory employing as many as 180 labourers. A slate factory has been established at PIPLYA in the Rampura District of the State. A sugar factory and a paper factory are under construction. The other industries which are receiving the attention of the Government are the cutlery industry at RAMPURA calico printing at GAUTAMPURA and handmade paper.

There are possibilities for starting and developing the following industries: Iron, limestone, clays, baryte and green earth.

The Indore Electric Supply is one of the most important State industrial concerns.

**INDORE** (population 1,46,283)—It is an important commercial centre and is the largest trade emporium in Central India being the chief collecting and distributing centre of Southern Malwa. It is the capital of the Indore State and also the headquarters of the Central India Agency. The City is 374 miles from Bombay and 401 miles from Agra, and Mhow Cantonment lies 13 miles away.

The exports from the town comprise grains, tobacco, opium, pepper, cloth, metal ware and raw cotton. The chief imports are hardware, cloth, stones, machinery, building material, kerosene oil, sugar and raw cotton.

#### JAFARABAD STATE

**JAFARABAD STATE** (area 53 sq miles and population 12,092) is situated in the extreme south of Kathiawar. Cows, sheep, goats, horses, camels and asses of Deshi breed are found here.

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Bajra, jowar, sesamum and groundnut are cultivated on a larger scale than cotton and wheat. Besides these, pulse such as mung, math, urid, wal and gram are cultivated. These are monsoon crops. Rabi, jowar and wheat are sown. Vegetables mainly consist of reddish ringana, turia, bhindi, gavar, karela, gajar, dambha and chilli.

The main staple food of the people of this State is bajra and jowar. Wheat is also consumed here which is imported from outside. Rice is consumed here on a comparatively negligible scale.

Lime stone is found here which is utilized in the manufacture of lime. Building stone is also found here. Sticky mud is available in the Jafarabad creek which may be used with advantage in the manufacture of cement.

Fishing industry is carried on from October to January by fishermen who come here from the neighbouring British Indian Ports. The local fishermen carry on their fishing operations to a small extent throughout the year. Sea-water salt is manufactured here. The local weavers make blanket sheets and coarse cotton cloth. Country shoes are made by local shoe-makers mainly for local utility.

The merchants of this place mainly deal in grains, ghee, timber, fire-wood, cloth and other necessaries of life. The trade is carried on on a limited scale and the price of all the commodities depend largely on those prevailing in Bombay markets.

The principal articles of import are cotton-seeds, copra oil cakes, grains, jaggery and kerosene oil and those of export are bajra, ghee, chunam, country stone pieces and dry fish. The exports are to a great extent made by sea in country crafts mainly to Bombay. The imports also especially by sea are partly consumed locally and are partly transported to neighbouring Kathiawar territory. There is no import of foreign goods except sugar and wet-dates and these articles are imported here from British Indian Ports by transhipment.

JAFARABAD is a small port and remains closed during the monsoon. There is no Railway at Jafarabad, but there is a railway station named Rajula City under the Bhavnagar State which is at about a distance of 15 miles from here. There are motorable land routes also for travelling to the neighbouring Kathiawar territory.

JAFARABAD town is the only important trade centre in this State and commodities such as grains, ghee, dried-fish and chunam are exported to Bombay from this centre.

No agricultural, industrial or cattle fairs are held in the State.

#### JAIPIR STATE.

JAIPIR State (area, 16,681 sq miles population 2,631,775, languages, Hindi and Urdu) is situated in Rajputana. Agricultural conditions vary in different parts of the State and shifting sand is common. The crops grown are bajra, mung, math, etc. Camels are used instead of bullocks in cultivating the land. Jowar, maize, cotton and til are grown round the capital town. Wheat, barley, gram, sugar-cane, poppy and also rice are cultivated in the east.

Woollen cloth and fabrics are woven at MALPURA. Cotton cloth, chintz, marble, saltpetre, enamel work, pottery, brass and lacquer work are also done. There are several cotton presses.

The exports from the State comprise salt, cotton, ghee, oilseeds, printed cloth, woollen fabrics, marble images, brassware and lacquered

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**bracelets** The imports are piecegoods, sugar, rice, tobacco and hardware. The trade is chiefly rail borne. From the SHEKHAWATI town, the exports are wool, grains, sugar, cloth, spices, tobacco, etc., which are carried by camels.

The city of JAIPUR is a fine, large and beautiful city in the whole of Rajputana and has a population of 1,44,179.

#### JODHPUR (MARWAR) STATE.

JODHPUR (area 36,120 sq miles, population 25,55,904, language—Marwari) is the largest Indian State in Rajputana. It is 1,330 miles to the west of Calcutta and 592 miles from Bombay. The length of the Jodhpur Railway is 1,125.69 miles.

The main crops are bajra, jowar, math, moong, wheat and gram. Sesamum, maize, cotton, barley and mustard seed are also grown. Irrigation is mainly from wells, the water being raised in some places by Persian wheels. Salt is the principal mineral found in the State at SAMBHAR, PACHPADRA and DIDWANA.

There are no important industries in the State. One cotton-mill (Shri Umaid Cotton-mills) has been started at PALI. It is producing nice mill-made Khadi in decent quantity and the export is also satisfactory. Hand spinning of cotton and wool and the weaving of coarse cotton cloth as well as woollen cloth, specially blankets, mats and bamboo-basket is carried on in villages. The dyeing and printing of cotton and silk cloth in JODHPUR, PIPAR and PALI is famous. Brass and non utensils are made at JODHPUR, PALI and NAGAU, ivory works are found at PALI and MERTA, lacquer works are found at BAGRI and JAITARAN, marble toys are made and quarrying is carried on at MAKRANA, and all kinds of white and pink, etc. marble pieces connected with buildings decorations and curios are also available, felt rugs are made in MALLANI and MERTA, saddles and bridles are made at SOJAT, tanning is done at BALI, ERINPURA and MAHAMANDIR, NAGAU locks and implements of goldsmiths are famous. Cattle of NAGAU and SANCHORE and horses of MALLANI are famous. There is an ice and aerated water factory at JODHPUR. Woollen army blankets are being prepared in the Economic Development Department. All processes, viz., carding, spinning and weaving are done without the aid of mechanical power. Besides, several woollen and cotton presses are working in the districts. Jodhpur has large Railway Workshop.

There is a possibility of the following industries to develop in Marwar—Manufacture of soda salts, manufacture of calcium compounds, tanning, pottery works.

The chief exports are salt, cattle hides, bones, wool, cotton, oil seeds, marble, sandstone, millstone, gypsum, lime, limestone, fuller's earth and bentonite for oil refining. The State has given afresh the mining lease for mica, beryl and felspar.

The chief imports are wheat, barley, maize, gram, rice, sugar, opium, dry fruits, metals, oils, tobacco, timber and piecegoods.

Most of the traffic is carried on by rail, 80 per cent of the rest by motor cars, and carts.

**Fairs.**—Ramdeo-ka-mela. This cattle fair is held in Nagaur (Railway Station Nagaur, Jodhpur Railway) and the chief cattle brought and sold are bullocks and camels. The fair commences on Magh Sudi.

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12th and lasts up to Fagun Vadi 5th i e for 8 days, but the fair commences 4 days earlier than the official date

Chautri-ka-mela or Tilwara Cattle Fairs —(Tilwara Railway Station, Jodhpur Railway) commences on Chaitvadi 11th and ends on Chait Sudi 10th i e, 15 days Bullocks, camels, horses and asses are bought and sold

Teja-ji-ka-mela or Parbatsar Cattle Fair —(Parbatsar Railway Station, Jodhpur Railway) commences on Bhadwa Vad 11th and ends on Bhadwa Sud 10th, but the trade actually begins a week earlier. Bullocks, camels, horses, asses and he-buffaloes are generally purchased and sold This is the biggest of all the three fairs

### JUNAGADH STATE.

JUNAGADH is situated in the South-Western corner of the Kathiawar peninsula. The State has a population of 6,70,719 of which 5,34,321 are Hindus, 1,27,814 Mahomedans, 282 Christians, 36 Sikhs, 8,073 Jains, 1 Buddhist, 66 Parsis, 14 Jews and 112 Primitive Tribe The total area of the State is 3,337 sq miles The languages spoken are Gujarati and Urdu

Cultivated area is divided into garden land, dry crop land, rice land, and ghed land The agricultural products are cotton, bajra, jowar, sesamum, wheat, rice, sugarcane, grass, timber, stone, castor seed, fish, country tobacco, groundnut, bamboos and onions

The State has some irrigation canals in some Mahals where there are facilities of rivers The State has purchased a tractor which gives fresh facilities to farmers in tilling their land which could not be done so well by ordinary ploughs There are four Agriculturists' Co operative Societies and one Agricultural Store of which the farmers take good advantage

The State has a big forest known as Gir Forest which covers 491 sq miles The products of the forest are teak, black wood, babul and grass

It has a big area for fruit plantation known as Dudheshwar plantation wherein mainly the mango-trees as well as several other fruit trees are planted There is a big area of land reserved for coconut and sugarcane plantation known as Una Vasoj Plantation There are in the State several quarries of white-stone which is good for building purposes The principal industrial concerns in the State are a match factory, ice factories and a bone crushing mill and a weaving factory The State has a bank of its own

JUNAGADH is famous for its lions, panthers, deer and spotted deer It is also famous for Kathi horses for the breed of which stallions are maintained and placed at centres of several Mahals There is a farm of well-known Gir cows in the State

The State has several routes for Motor Services for passenger traffic and are governed by a transport board

Fairs—Of the various fairs held in the State, Shivratri Fair is the principal one which is held in Junagadh when various kinds of exhibits of garden and forest products are sent for demonstration It is held every year on Mahi Vadi 14

### KARAULI STATE.

The State of KARAULI has a population of 1,40,525

The chief Kharif crops are bajra, paddy, jowar math moong, urid, til cotton, sugar-cane maize, sunn (flax), groundnuts and arhar

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The Rabi crops are wheat, barley, gram, zira and sarson. The jungles of the State have not yet been properly surveyed with the exception of one named Sadar Rund, the area of which is reported to be 36,075 bighas

There are no big industries in the State, agriculture is the chief occupation of the people. There is one ginning and two flour mills at the capital and also a power house which supplies electric light to the capital. The chief produce of the country are Indian corn, bajra, jowar, mung, urid, muth, wheat, barley, gram, arhar, ground-nuts, rice, cotton, gur, zira and sunn (flax). The important commodities of export are ghee, zira, rice, chillies, sunn, tatpatties, stone slabs and hides while those of import are cloth, yarn, sugar, indigo tobacco, oil, bries, cigarettes, groceries and articles of general merchandise

The most important indigenous arts and manufactures in the State are —1 Manufacture of Tat-Patties 2 Dyeing and block printing of cloth 3 Lacquer turning and making of wooden toys 4 Manufacture of Kalis for Hukkas (smoking pipes) 5 Moulding of brass and pewter utensils and ornaments 6 Stone carving 7 Weaving of Khadi and other sorts of country cloth

Fairs.—Two big fairs are held in this State (i) Shivratri fair at the capital for 15 days in Falgun (February-March). In this fair about 50 000 cattle are sold and commodities worth lacs of rupees are transacted. Almost all the articles are exempted from Customs duties during this fair. (ii) Kaila Devi fair at the shrine of Kaila Devi 15 miles from the Capital. Lacs of pilgrims flock during the 15 days of Chaitra (March-April) the fair lasts

#### KASHMIR STATE.

JAMMU and KASHMIR State is in area the largest of the Indian States. Most of the country is mountainous and sparsely populated. The valleys are fertile and well populated

The area of the state is 84 471 sq miles and population at the last census (1941) was 8,042,000. Muslims form 76 % of the population

The population is mainly agricultural. His Highness's Government have extended irrigation on a large scale. Co-operative Societies finance agriculture. Special legislation has been passed to relieve agriculturists from the hands of usurious money lenders. The Agricultural Department is responsible for the introduction of new crops and the increase of the quality and outturn of existing ones. The chief crops raised in the state are rice, maize, wheat, bajra, pulses, linseed, sesamum, rape, mustard, cotton, tobacco and hops

The State is rich in minerals the most important being coal, lignite, sapphires, aquamarine, iron, gypsum, limestone, petroleum, natural gas, copper, nickel, zinc, lead and chromium ores. Gold is also met with. Ochres, graphite, bauxite, kaolin, bentonite, serpentine, marble and slate are found in large quantities

The State forests are extensive and form 52 per cent of the total area of the provinces of Jammu and Kashmir and 11.8 per cent of the total area of the State. The State contains by far the most important and extensive forests under conifers in India, and supplies the bulk of conifer timber in Northern India from the two important Timber Depots which it maintains at Wazirabad and Jhelum in the Punjab. Large quantities of fibres, resins, grasses, oil seeds, dyes, gums, bamboos, drugs and spices are found, they are not only an important source of revenue but also a great national asset in as much as they

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supply valuable raw materials for the various industries connected with the building of houses, furniture, sports, wood pulp, paper, tanning, matches, resin, turpentine, lac, drugs and spices Kuth and artemesia are exported in considerable quantities

**LIVE STOCK**—The total live stock population of the State is 57,57,722 of which the cattle number 18,00,295 For the improvement of the stock of cattle Government have recently sanctioned a scheme under which Dhanni and Sindhi bulls are purchased and distributed on premium in various cattle breeding centres in the State Two cattle breeding farms, one each in the provinces of Jammu and Kashmir are being opened

The total number of sheep and goats is 28,38,278 Sheep keeping is a valuable subsidiary industry for the farmer

The best kind of wool found in the State is called Pashmina which is sheared from the pashmina goats limited to BANSKAR (Tehsil Kar-gil) The total number of these goats is estimated at over 70,000

**CATTLE SHOWS**—The Civil Veterinary Department of His Highness Government holds a number of livestock shows at different places in the State with a view to encouraging the improved breeds of animals In the year 1939-40 six shows were held, 3 in Jammu Province and 3 in Kashmir Province The number of animals admitted in these shows in Jammu province was 4301 and that of these admitted in Kashmir province 2630 The owners of selected animals were awarded prizes of Rs 3000

**EXHIBITION**—A permanent site has been provided by Government for the industrial and agricultural exhibition, which is held every year at SRINAGAR in the month of September Indigenous raw products, such as agricultural products consisting of articles of food, timber of different qualities and kinds, minor forest products, minerals and specimens from fisheries are exhibited

**TRANSPORT**—A considerable portion of the Jhelum in Kashmir valley is navigable and goods are transported from place to place by water In the Jammu province, which is hilly, the rivers are not navigable The Jhelum valley and the Banihal cart roads connecting Srinagar with Jammu and Rawalpindi are the two chief lines of communication with the outer world Each of them is about 200 miles in length In other places accessible to lorry traffic, the older and slower means of transport such as carts and tongas are gradually disappearing The interior is being linked up with the cities by motorable roads Pack animals play a very large part as means of conveyance in the more distant mountainous districts

**INDUSTRIES**—The large-scale industrial establishments in the State employ about 6,500 persons The industries covered by these establishments are Carpet manufacture, woodwork and sports works, printing works, manufacture of woollens, tapestry and embroidery silk weaving and raw silk reeling, manufacture of other kinds of textiles: match manufacture, manufacture of indianite, manufacture of pharmaceuticals, leather work, brass and other metal work, oil extraction and oil mills, manufacture of rosin and turpentine, rice mills, namda manufacture, and preparation of half-wroughts

In addition to these, there are a large number of small-scale and cottage industries, including handloom and power-loom weaving in silks, cottons, wools and mixtures gabbas, silver ware, soap and other toilet articles, boot polishes writing inks, brass and metal ware pottery, disinfectants, articles of stationery, bee-keeping, tanning, paper

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making, wicker work, nib-making, pen-holder-making and papier mache

**Support to Industries**—The Government has set up pioneer concerns with a view to utilising within the State the locally available raw materials or for giving a lead to the local industry. It has set up a cricket bat manufacturing factory, in which willow, produced in abundance in Kashmir, is mainly consumed. The silk-weaving factory, which is in addition to the Government Silk Factory, consumes the high quality yarn produced by the latter from the univoltine species of cocoons in the State. The silk filature of the Government Factory in Srinagar is the largest of its kind in the world. A special quality of raw silk which has been produced can favourably compare with silk produced anywhere else. The rearing of cocoons for silk provides employment for thousands of homes in the villages, exclusive of the labour that finds employment in the factories themselves. The Forest Department has certain large scale works for the utilisation of its major forest products.

Under the State Aid to Industries Act, lakhs of rupees have been paid to firms and individuals in the form of loans to foster the industries started by them. During the last ten years, Rs 2 lakhs have been paid by way of subsidies to the carpet factories in the State, both in the interests of labour and as an aid to this ancient industry. A big drug factory is being started.

A sheep breeding and Research Farm has also been started to improve local breed and wool. A drug factory, a sugar mill and a card board manufacturing factory are to be started soon. A Cottage Tannery School has also been started by the Government. Two bee-keeping centres have been started to train local people in the improved methods of the production of honey.

**TRADE**—The external trade of the state is steadily rising. Last year it amounted to 70,76,113 maunds valued at Rs 4,36,56,523. The exports were 42,79,207 maunds valued at Rs 1,91,54,840 and the imports were 27,96,906 maunds valued at Rs 2,65,01,683 in 1938-39. Among the chief articles of import are cotton manufactures, tea, grain and pulses, sugar, metals and manufactures of metals, wool and woollens and silk piecegoods. Wood and timber, raw silk and cocoons, fruits and vegetables, woollen piecegoods, hides and skins figure prominently among the exports.

The main trade routes are Srinagar to Jammu and Sialkot, Srinagar to Rawalpindi and Srinagar to Tibet and Central Asia via Leh.

#### KATHIAWAR STATE.

KATHIAWAR is a peninsula and is properly the western portion of the province of Gujrat. The extreme length of Kathiawar is about 200 miles and its area is about 24,000 sq miles. The State has a population of more than 27 lakhs.

The peninsula is mainly wooded. The mangrove grows on the shores and its wood is used as a fuel. Coconut trees grow rapidly along the shores and the wild date is commonly met with. Excellent mangoes are grown at MAHURO.

The peninsula abounds in minerals of different varieties and is particularly rich in building stones. The principal metallic ore found here is iron. Pearls of good quality but inferior in lustre are found here in the Gulf of Cutch.

Cotton exported from the ports of Kathiawar amounts to about one-sixth of the whole of Bombay's exports to foreign countries and large

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imports of bullion and grain are received by Kathiawar as a part of the price of her cotton. Besides these, cotton cloth, sugar and molasses are largely imported. Wool is also largely exported from this place.

There are a few weaving mills and steam presses for treating the main products of the peninsula, namely cotton and wool. Kathiawar crafts are gold and silver thread making, weaving of silk and brocades, etc. Making of fragrant red powders, fragrant oils, perfumed sticks, and powders of rose and other essences form the occupation. Ivory work and carving of sandalwood are practised in different districts.

The Kathiawar State has lately developed as a centre of sea-borne trade. The preferential duties at the ports of the State have deflected trade from Bombay and Karachi. These are sought to be removed shortly on the ground of undue competition. The total imports into these States during 1939-40 formed only 3.6 per cent of the imports in the same year into British Indian ports as compared with 3.2 per cent in the preceding year, while the proportion of exports was 2.3 per cent as against 3.3 per cent in 1938-39.

#### Imports.

The following table gives the share of each of the different States in the imports into Kathiawar during the last five years —

Name of State	1936-37	1937-38	1938-39	1939-40	1940-41
	(in 1,000 rupees)				
Baroda	27.75	55.56	60.74	95.19	76.43
Bhavnagar	83.87	65.80	50.95	57.17	30.05
Jafarabad	9	9	12	2	3
Junagadh	28.74	35.99	42.03	46.43	24.74
Morvi	39.43	69.83	72.04	1,30.87	50.79
Nawanagar	57.12	69.13	93.84	1,21.64	35.43
Porbandar	16.46	28.05	27.94	33.91	29.43
Total Imports	253.46	324.45	347.66	485.23	246.90

Details of chief commodities imported into the State follow —

	1936-37	1937-38	1938-39	1939-40	1940-41
	(in 1,000 rupees)				
Cotton, raw	14.09	3.43	3.52	9	1.39
Cotton, manufactures	43.37	38.83	43.66	45.71	12.82
Machinery and millwork	12.37	20.99	39.72	23.10	33.25
Metals and ores	49.54	32.99	38.90	40.90	—
Grain, pulse and flour	1.11	43.04	32.06	59.25	18.65
Sugar	13.28	7.95	28.55	1,09.48	23.04
Oils	4.76	24.50	23.72	71.52	—
Chemicals	16.81	23.48	21.22	21.21	—
Wood and timber	1.04	17.23	16.16	15.21	14.85
Vehicles	20.31	14.47	12.94	16.89	—
Paper and paste board	9.37	16.25	11.76	11.04	5.33
Instruments, apparatus and appliances	7.80	10.67	10.99	14.28	9.00
Starch, Dextrine and Farina	6.94	9.01	9.98	7.84	24
Fruits and vegetables	11.18	10.17	9.97	8.64	11.83
Hardware	6.64	6.80	5.10	6.87	1.47
Artificial silk	2.42	2.18	1.10	1.12	3.12
Silk Manufactures	1.12	2.27	1.00	1.65	3.56
All other articles	31.31	40.69	36.65	29.94	—
TOTAL	253.46	324.45	347.66	485.23	246.90

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**Exports.**

In 1940-41, the total exports aggregated in value Rs 1,76 lakhs as against Rs 3,08 lakhs in 1939-40. The principal articles exported were as usual raw wool, seeds, raw cotton, groundnut cake, ghee and ground nut oil which together represent 71 per cent of the total export during the year.

The following table shows the respective share of each of the different States in the export trade over the last three years —

Name of State	1936-37	1937-38	1938-39	1939-40	1940 41
	(in 1,000 rupees)				
Baroda	93	88	4,56	11,46	23 42
Bhavnagar	85,67	65,45	66,06	41,27	5,86
Junagadh	82,21	90,36	1,06 32	63,39	8,76
Morvi	—	—	7,14	77,11	1,02,17
Nawanagar	99,54	88,21	1,44 23	89,12	15 86
Porbandar	9,42	46,22	52,53	25,50	19,96

Total Exports	2,77,78	2,91,12	3,80,84	3,07,85	1,76,03
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Details of chief commodities exported from the State follow —

	1936-37	1937-38	1938-39	1939 40	1940 41
	(in 1,000 rupees)				
Seeds	85,90	1,40,47	1,93,88	1,16,03	12,75
Wool, raw	62,86	40 81	60 41	97,08	1,01,96
Cotton, raw	74,59	40,07	52,68	38,00	91
Groundnut cake	20,49	26 35	34 17	19 11	4 53
Ghee	12,77	6 23	6,78	5,85	4,59
Groundnut oil	4 29	9,53	5,24	79	37
All other articles	16,38	27,66	27,72	30,99	50,92
<b>TOTAL</b>	<b>2,77,78</b>	<b>2,91,12</b>	<b>3,80,88</b>	<b>3,07,85</b>	<b>3,80,88</b>

**KOTAH STATE.**

**KOTAH STATE** (area 5,684 sq. miles, population 7,77,398) is bounded on the north by Jaipur and Tonk, south by Raigarh, Khilchipur, Indore, east by Gwalior and Tonk and west by Gwalior, Jhalawar and Bundi States.

**Crops** Areas sown under crops in acres during 1940-41: Wheat 239,037, jowar 343,710, maize 47,409, gram 131,292, linseed 71,249, sesamum 59 014, condiments 24,663, cotton 14,074, fodder 77,582.

**INDUSTRIES**—Oil pressing, match making, cotton ginning are the chief industries. Paper is made by hand. Floor stone polishing is also conducted. There are a number of printing presses. Stone quarries occur in the state.

**MINERALS**—The chief minerals found in the state are —Iron ore, Bauxite, Lime stone (carbonate of lime), Calcite (crystallized carbonate of lime), Magnesium lime stone, Fire clay, China clay or kaolin, Quartz Sand (silica), Agate, Jasper, Red oxide of Iron, Red ochre, Brown Haematite-Limonite, nice quality of Slab stone of white, brown and red colour, flooring stones of various qualities.

**IMPORTS and EXPORTS**—Imports during 1939-40 consisted of silver (2 37,240 tolas), piecegoods (Rs 13,71,150), bisati (Rs 418,020), metal (Rs 1,16,125), gur (20,399 mds), sugar (37,979 mds), iron (9,434 mds), rice (10,351 mds), kerosene (61,239 boxes). Exports consisted of food grains (11,36,494 mds), oil seeds (1,52,610 mds), kirana (138,289 mds), hides (44,034 mds), oil (26,289 mds), cotton (8,162 mds).

Prepare ghee, butter, casein, condensed milk, etc. at home. **MILK & MILK PRODUCTS** explains the way. Re 1/12 Industry Book Dept., Calcutta.

**MARKET**—Chief centres of trade are KOTAH, BERAN and RAMGANJ

**Fairs**—Religious fairs are held at Kotah during Desserah and at Beran during Dole festival Cattle fairs are Manohar thana, Sitabari, Rameshwar, Asnawar, Sanged, Suket Kartek, Suket Basakhi

The State is well served by B B & C I and G I P Rlys Motor lorries, tonges, bullock carts are the other means of transport

#### LIMBDI STATE.

LIMBDI STATE (area 343 sq miles, population 44,003)—The local agricultural products are cotton and grains which are extensively cultivated Wheat is certified to be of the best quality by the Agricultural Marketing Officer Coarse cloth is manufactured here to a small extent Matches are manufactured for local consumption Ice factory has also been recently opened here There are three flour mills, a ginning and pressing factory, a cast-iron factory, type foundry, four soap factories LIMBDI is noted for its snuff manufacture

The chief town, LIMBDI, is 14 miles south-west of Wadhwan. The State is connected with the Bhavnagar railway.

#### MANIPUR STATE.

MANIPUR STATE (area 8,638 sq miles, population 4,45,606) lies between Assam and Burma

The chief agricultural products grown are rice, mustard, sugarcane, pulses, tobacco fruits and vegetables Pottery, agricultural belts, leather goods, etc., are manufactured Manipur State Arts and Crafts, run and financed by the State, manufacture dress, furnishing materials, beside other novelties It is also a teaching institution

The area under rice was (1,85,213 acres), and under other crops was 46,129 bighas (15,244 acres) During 1937-38, 352,175 maunds of rice and 198,559 maunds of chura were exported as against 261,117 maunds and 153,956 maunds respectively in the previous year.

The staple crops in the Hills are rice, millet, job's tears and maize. Cotton and linseed are produced mainly in the hills near the valley where the hillmen can usually find a ready market In the South West area, particularly SENVON and PARBUNG they can get their cotton and linseed exchanged with salt, thread and other articles from men from Cachar

Maize is source of some profit in the east Betel leaf is cultivated in the West by the Kabuls and sold in Cachar and Manipur Potatoes are grown round about UKHURUL but only for local consumption

The potatoes grown in MAO are exported to Assam Oranges are grown in the West During 1937-38 no tea seed was exported

#### MAYURBHANJ STATE.

MAYURBHANJ ranks first in point of population among the States of the Eastern States Agency The area of the State is 4,243 square miles and population according to Census of 1941 is 9,90,997

**Crops.**—Agricultural statistics for the year ending June 30, 1942 show that the total cultivated area in the State was 11,30,552 acres The following statement gives the acreage under important crops—Maize 8,559 acres Thi 3,161 acres, Sugarcane 3,005 acres, Cotton 1,400 acres, Paddy 7,55,729 acres and mustard 3,890 acres

**Forest.**—The Forest Wealth of the State is enormous Besides Sal for which Mayurbhanj is famous throughout India, large quantities of other first class timbers useful for cabinet making and high class furniture like Sisoo, (Rose wood), Piasal, Gamari, Champs—which

Prepare ghee, butter, casein, condensed milk, etc. at home MILK & MILK PRODUCTS explains the way. Re. 1/12. Industry Book Dept., Calcutta.

States Kannada is the principal language though the other sister Dravidian languages are also current.

Ragi is the principal crop of the State, and occupies 2.2 million acres. Horse-gram occupies the next place with 750,000 acres, closely followed by paddy. Chief grains cultivated in the State are jowar, rice, gram, pulses, castor, groundnut, condiments and spices, bajra, sesamum, sugarcane, tea, drugs, etc. Cotton and sunn-hemp are the chief fibres and chilli, capsicum, ginger, coriander, cumin seeds are the spices. Tobacco, mustard, cotton and garlic are also grown. Coffee is grown on the slopes of the Western Ghat. Fruit and vegetable productions receive special attention near about BANGALORE. Apples, straw-berries, peas, potatoes, cauliflowers, mango, arecanut, coconut (163,000 acres), and plantain are grown. Arecanuts of NAGAR are famous. There is a horticultural garden at LALBAGH and at BANGALORE and there is an exotic fruit garden at NANDIDROOG. Very little cultivation is carried on in the Mysore Hills other than rice, coffee, cardamoms, arecanut and betel leaf where rainfall is heavy.

**Forests:**—The reserved forests of Mysore produce sandal-wood, teak, poon, blackwood, lac or jalar, nandi, wild jack, etc. Minor forest products are gallnuts, tannin bark, tangadi, and lac. Soapnuts, gum, honey, beeswax are also obtainable. Elephants are employed for dragging timber from inaccessible parts of the forests. Fuels are also obtained from these forests.

**Textile Industry:**—The textile industry is a very old and established industry in the Mysore State. It is carried on both on a factory scale as well as on a cottage industry basis. There are at present nine cotton mills, representing a total capital investment of about a crore of rupees (authorised) and affording employment to about 9,800 persons. These mills have in all 349,147 spindles and 2,574 power looms. The total annual output of finished goods in these mills is estimated at 12,816,000 lbs in 1939-40. There are 50 smaller power loom factories employing more than 10 persons each. The major portion of the cotton produced as well as imported into the State is consumed by the cotton mills in the State. The average annual consumption of cotton in these mills is about 73,250 bales of 3½ cwt.

**Sericulture:**—Sericulture is the largest and most important cottage industry in the State, affords occupation to about one million people. Silk produced in Mysore has acquired a wide reputation for its high tensile strength, lustre and capacity to take fast dyes. The total annual production of raw silk is about 10,00,000 lbs. which is a little more than half of the total production of silk in India. It is proposed to put up 1,410 new basins capable of producing annually 423,000 lbs of reeled silk.

There are at present 72 silk throwing factories in the State having about 12,000 spindles. The quantity of silk dealt with by these factories every year is estimated at 175,000 lbs. and out of this total quantity, 75 per cent is reported to be foreign silk, the remaining 25 per cent being of the indigenous variety. The locally thrown silk is not only being utilised by the handloom weavers of BANGALORE City and DODBALLAPUR within the State in the production of finished goods, but is also exported to Salem, Dharmavaram, Belgaum, and a few handloom weaving centres in Northern India.

The Government Silk Factory manufactures high grade silk fabrics which compare favourably with improved goods. The georgettes and crepe de chin are also manufactured in this factory.

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**Woollen Industry.**—The woollen industry in Mysore has been of age-long importance. There are now four woollen mills in the State, with a total authorised capital of about Rs 60 lakhs. These mills have 8,463 spindles and 322 looms, and employ daily, on an average, 1,271 persons. The total quantity of goods produced by these mills during 1939-40 amounted to 1,355,548 lbs valued at Rs 11,99,943. The main products of these mills are rugs and blankets, carpets and druggets.

Half a dozen concerns specialise in the manufacture of druggets and carpets, which find a ready market all over India, Calcutta and the Punjab being the most important markets in Northern India. Some of those goods, particularly pile carpets and druggets, find their way to Burma and even to other foreign markets like the U S A and the United Kingdom. It is estimated that about 100,000 square yards of druggets valued at Rs 3,00,000 are exported annually from Mysore. The total capital invested in the carpet industry in the State is estimated at Rs 2½ lakhs.

Supplies of wool are received from KOLAR, CHITALDRUG and some portions of the KADUR District. The annual production of wool in the State works out to about 2,800,000 lbs which is chiefly consumed by the mills and handloom weavers.

**Iron Industry.**—The Mysore Iron and Steel Works is by far the biggest industrial venture of the State. The plant at Bhadiavati occupies an area of about 100 acres and comprises of a charcoal blast furnace, wood distillation and bye-products recovery plant, pipe foundry, open hearth steel furnace, rolling mills, general foundry, machine shop and reserve steam power unit. Charcoal pig iron of exceptional quality is manufactured in several grades and it has gained a good reputation in India and abroad. Pig iron produced in the factory in 1939-40 amounted to 29,660 tons and steel ingots, etc to 55,086 tons. The works have spent Rs 5 lakhs on labour welfare schemes. The operations in 1941-42 result in a net profit of Rs 12.20 lakhs.

**Handicrafts.**—Principal places of iron smelting are MAGADI, MALAVALLI, CHIKNAYANHALLI, HEGGADADEVANKOT, ARSIKERE and TALURKAS in Chitaldroog district. Steel wire is drawn at CHAUNAPATNA. Brass and copper vessels are made at SRAVANA BELGOLA and SITAKAL, bell-metal articles are made at HASSAN and TUMKUR district, SORAB in Shimoga district is famous for ornamental sandal wood carving.

Furniture and toy making have been long in existence in the State. The carpets of BANGALORE are well-known. Gold (circular or of other shapes) and silver ornaments are made.

Good silk fabrics are made at Patvegars and Khattiars in Bangalore CLOSEPET, KANKANHALLI, MAGADI, CHIKBALLAPUR, TIRUMAKUDAR-NARSIPUR and BANGALORE are the centres of silk trade.

Other handicrafts include hand weaving and spinning. There are about 30,000 handlooms weavers (each having one loom on an average) engaged in producing cotton, woollen and silk goods in the State. Lacquer manufacture is an old industry employing about 1,000 hands. Improvement in quantity and quality has lately occurred due to introduction of new and improved tools and new designs.

**Minerals.**—Mysore is rich in minerals. The four gold mining companies on the Kolar Gold Fields produced 314,501 oz of gold valued at £2,437,395 during 1939-40. A gold mine is said to exist near NANGAIRGUD. The output of silver during 1939-40 was 22,746 oz, chromite was obtained to the extent of 36,891 tons, kaolin 3,226 tons, manganese 4,853 tons, copper 226 tons, mica 87.6 tons, ochres 70 tons, slate-

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stone 95 tons, soapstone 695 tons, quartz 92 tons, ornamental stone 6,010 cft. Chromite has also been traced near DEVANUR in the Kadur Taluk. Galena and antimony ores occur near CHITALDRUG, kaolin near KOLAR and graphite in the BOWRINGPET taluk. Iron ore is obtained in abundance near the KEMMANGUNDI Hills and forms the chief raw material of Mysore Iron Works at BHADRAVATI.

**Trade**—The chief exports from Mysore are gold, grains and pulses, betel leaf, arecanut, raw silk, sugar, jaggery, coffee, coconuts (dried kernels). The important imports are grains and pulses, iron and steel articles, raw silk, piecegoods, tobacco, cotton and thread. The State has many internal markets where weekly purchases are made and foreign articles are sold.

**Government Factories**—The Government Soap Factory has put on the market besides soap other toilet preparations of excellent quality like brillantine, vanishing cream, tooth paste, etc. The Government Sandal Wood Factory continues to produce sandal wood oil of superior quality. The Government Porcelain Factory specialises in the manufacture of insulators and fancy porcelain articles are also being manufactured. The goods of the factory find a market all over India. The Government Lac Factory under the control of the Industrial and Testing Laboratory has been specialising in the manufacture of sealing wax, lac varnishes, etc. This Lac Factory has recently been merged in the Paints and Varnishes Factory recently started by Government in the Mysore City. The Government Electric Factory with the growing demand for electrical goods in the State has been engaged in the manufacture of electrical transformers, bakelite articles, manufacture of small machine tools, etc. Latest of the Government enterprises is the starting of the Mysore Implements Factory for the manufacture of agricultural implements and edge tools at a cost of about Rs 2 lakhs at HASSAN.

Apart from the above, several other large industrial concerns have been started with the aid of the Government by way of financial help and other concessions. Of these the important ones are the Mysore Sugar Co. Ltd., The Mysore Tobacco Co. Ltd., The Mysore Paper Mills, Ltd., The Mysore Spun Silk Mills, Ltd., The Mysore Stoneware Pipes and Potteries Ltd., The Mysore Lamp Works, Ltd., The Mysore Chemicals and Fertilisers, Ltd., The Mysore Vegetable Oil Products Co. Ltd., The Mysore Coffee Curing Works, Ltd., and the Mysore Glass and Enamel Works Ltd. The financial aid to these has in most cases taken the form of subscription to the share capital of the Company.

**SIVASAMUDRAM**—This is 30 miles by road from Maddur, a Railway Station on the Bangalore-Mysore Railway. It is the site of the famous Cauvery falls and the Hydro-Electric works of Mysore.

**MYSORE CITY** is 89 miles from Bangalore by road and 86 miles by rail. It is the capital of the State.

Cotton cloth, blankets, brass utensils, earthenware, and jaggery (both cane and date) are the principal manufactures. There is also some silk weaving works. The sandal wood oil of Mysore has gained an international reputation and Mysore is famous for its ornamental sandal wood carving.

Grain is diverted to the West Coast, Nilgiris and Coimbatore. There is also a considerable trade with Bangalore and Madras.

**BANGALORE** the seat of the Government of Mysore, is an ideal holiday resort. Coffee is peeled, sized and sorted in a coffee work at Bangalore in order to prepare the stuff for the European market. Arti

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ficial manures for coffee plantation is also produced at the factory. Other factories working in Bangalore are sugar factory, brick and tile factory, iron foundry, silk farm, etc. Oil mills are also at work in Bangalore. Tanneries on a considerable scale are managed by Mahomedans and hides and skins are prepared for export purpose. There are also cotton and woollen mills which spin and weave cotton and wool and produce fine stuff.

The carpets of Bangalore are well-known for their durable quality, and for having the same pattern on both sides. It is said that Bangalore carpets are unapproachable by the commercial carpets of any time and place. Silk fabrics of stout texture and excellent design are made in Bangalore where sericulture is conducted on a large scale. Indeed, Bangalore is the centre of the silk trade in the south of India.

An industrial exhibition on a large scale is held every year during the Dassara Season (October) in MYSORE CITY.

**War Efforts**—Mysore supplies cotton, ammonia and acetate for explosives, iron and steel for armaments, silk for aeroplanes, carbonised coconut shells for gas masks, timber for military camps, and a variety of articles for Army clothing and equipment. Field service medical articles, pharmaceuticals, instruments are also being supplied.

#### NABHA STATE.

The NABHA State forms an important State under the Punjab States Agency. Its area is 963 sq miles, population 3,40,044. Punjabi is the language spoken.

The chief crops grown in NABHA are gram, wheat, pulses, bajra, bailey, sugarcane and cotton. Stone is quarried in some of the hills in Bawal, as also kankar and saltpetre. The chief industries are the manufacture of silver and gold ornaments and brass utensils for local need. Lace, cotton, carpets and fabrics are among the other manufactures. Cotton presses, ginning factories and oil mills have been established.

The State is well provided with railways and roads.

#### NAWANAGAR STATE.

NAWANAGAR STATE (area 3,791 sq miles, population, 504,006) lies on the southern shore of the Gulf of Cutch.

The principal products are grain, cotton, wheat and grain. Wheat is produced here without irrigation. There is a good trade in these crops both inside and outside the State. Marble of different qualities is found in the Kandorana and Bhanwai taluks and there is a growing trade in isinglass and shagreen. The fisheries along the coast are important. Cloth and silk are the chief manufactures. Dyeing is an important occupation.

The State has 32 ports, large and small, the principal among these being JODIYA, SALAYA, ROZI and the famous BEDI PORT. In times of yore, JODIYA and SALAYA were the principal gateways for extensive trade of the whole of Kathiawar, JODIYA being particularly famous for its exports of wool to Europe. A long line of sheltered sea-coast imparts to the Nawanagar State ports the unique advantage of being "all-the-year-round" ports while their comparative proximity to the consuming centres in the interior accounts for the popularity of one or another of Nawanagar State ports among importers and exporters during different periods of history.

JAMNAGAR CITY, the capital of the State, is 51 miles by railway from Rajkot.

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BEDI PORT is located on the Gulf of Cutch and at a distance of about four miles from Jamnagar, the capital of Nawanagar State. Small steamers upto about 1000 tons discharge direct on to the Bundar.

The principal articles imported via Bedi Bunder are kerosene, petrol, rice, timber, sugar, liquors, matches, metals, China clay, stationery, hosiery, cutlery, electrical accessories, coconut oil, perfumery, cigarettes, raw cotton and silk piecegoods, cycles, motor cars and accessories, glassware, etc. Exports include cotton and cotton waste, wool, cereals, oil cakes, oil seeds, hides, skins, etc.

Imports and exports in the State are as follows —

	1938-39	1939-40 (in 1,000 rupees)	1940-41
Imports	93,84	1,21,64	35,43
Exports	1,44,27	89,12	15,86

#### PALITANA STATE.

PALITANA STATE has a population of 76,432 souls and an area of 288 sq miles. The principal crops of the State consist of grains, sugarcane and cotton in which the State has a large and booming trade. The State is celebrated for its Jain temples on the Shetrunjaya Hill, where the Jains perform at least one pilgrimage during his life time. The chief town is PALITANA, a station on the Bhavnagar State Rly. The State is also noted for its breed of Kathi horses which are particularly beautiful. The State possesses one of the oldest studs in India. Harmonium reeds are manufactured and are greatly in demand from all parts of India, Burma and Ceylon.

#### PATIALA STATE.

PATIALA is the biggest State in the Punjab. Its total area is 5,929 sq miles or 37,94,685 acres. The population of the State according to the census of 1941 was 19,36,257 souls. Language spoken by the inhabitants is mostly Punjabi.

The State contains about 14 important towns and 3,608 villages, distributed into 6 districts, each under a Nazim (Deputy Commissioner).

Out of 37,94,685 acres of land, area cropped during the year 1941-42 was 23,93,945 acres, under forest 63,081 acres, under culturable waste 5,41,038 acres, fallow 5,36,125 acres. The most important crops are wheat (4,23,084 acres), sugar-cane (22,565 acres), cotton (2,40,971 acres), gram (4,23,718 acres), maize (1,09,341 acres), barley (91,666 acres), jowar (59,002 acres), fodder crops (4,00,789 acres), fruits and vegetables (15,729 acres), oil seeds (93,835 acres).

Submountainous tracts like SIRHIND, PATIALA, RAJPURA, and PINJOUR are famous for the production of good citrus and mango fruits, NARWANA, MANSA and BHATINDA ilaqs are known for good breeds of cattle and are also ghee-producing centres.

Important means of transport are — Rail (Rajpura-Bhatinda line, Sirhind-Ropar line, Ambala-Ludhiana main line, Bhatinda-Delhi line and Ludhiana-Jakkhal line), (i) Carts, (ii) Canals, (iv) Asses, (v) Lorries, (vi) Tongas and (vii) Camels.

Important trade centres are — 1. Patiala, 2. Bhatinda, 3. Narnaul, 4. Bassi, 5. Barnala, 6. Mansa, 7. Narwana, 8. Sirhind, 9. Dhuri, 10. Samana, 11. Sunam and 12. Doraha.

The chief imports consist of wheat (600,000 mds), gram (555,000 mds), potatoes (70,000 mds), rice (175,000 acres), rape seed (105,771 acres), raw tobacco (44,600 acres), sugar (335,722 acres), gur (385,051 mds). The chief exports consist of wheat (2,100,000 mds), gram (2,291,895 mds), maize (40,892 mds), barley (306,600 mds), rice

**Manufacture Pickles & Chutneys at Home.** INDIAN PICKLES, CHUTNEYS & MORABBAS explains the process. Industry Book Dept., Cal.

{43,830 mds), rape seed (94,110 mds), sugar (127,125 mds), gur (240,877 mds)

**Fairs**—An Industrial Exhibition is held at Patiala every year, generally in the beginning of March. Cattle fairs are held all over the state where brisk business is done by the public

#### PORBANDAR STATE.

PORBANDAR is a Maritime state in Kathiawar of growing importance and covers an area of about 642½ square miles and has a population of about 1,50,000 Language is Gujarati

The principal crops of the State are jowar, wheat, bajra, til-seeds and cotton and an increasing trade is carried in these productions The principal supply from the sea is fish of many kinds including oysters, pomphrets which are largely found here Lastly the principal production is ghee which is exported in large quantities to Bombay and African ports PORBANDAR is a ghee grading and packing station with a well equipped laboratory, which is authorised to apply AGMARK

A kind of limestone known as Porbandar stone is found here in abundance from the Adityana Quarries and exported in large quantities by rail and sea Woollen blankets known as "Dhabri" of very good quality is manufactured here by local home industries Large quantities of timber are imported here from Burma Malabar and Gujrat ports by sea The exports of agricultural products from the State and beyond go to Continental Ports in large quantities

The principal industrial concerns are the Associated Cement Cos, Ltd, the Maharaia Mills, Ltd (Spinning and Weaving Mills), Nadir Salt Works, the Natwarsinhji Match Works and the Natwarsinhji Hosiery Works Their products, viz cement, cotton and artificial silk piecegoods salt matches and hosiery are exported in large quantities to Indian as well as foreign ports There has been a thriving shipbuilding industry in the State Craft built in Porbandar make their voyages all over Indian coast as well as to Aden and Persian Gulf Ports and to Africa

Mention may also be made of Porbandar's silver works, the Natwarsinhji Oil Mill, tin box manufacturing factory and cottage industries The former performs exquisite engine turning on precious metals There are also four ginning factories and two baling presses in the State

PORBANDAR is the chief port and town in the State and is well known as "SUDAMAPURI" Porbandar is known as the "White City" of Kathiawar on account of magnificent white buildings built with stone The Port is well provided with all the modern handling equipments and warehousing accommodation Calls of ocean-going liners included ships of Clan Line, Hansa Line, Anchor Line, Holland and British India Line, British India Steam Navigation Co, Moghul Line, Asiatic Steam Navigation Co, and Scindia Steam Navigation Co But these sailings have become uncertain since the outbreak of War owing to international situation The principal foreign imports are sugar, piecegoods, dates, chemicals, petrol, kerosene, iron and steel, African cotton, art silk yarn, old newspapers, coconut oil, rice, timber, wines and spirits, motor cars and accessories, groceries and other miscellaneous general cargo

The principal commodities of exports are ghee, groundnuts, oil cakes, cotton, stone, lime, salt, cement, and several other minor commodities

Imports and exports in the State are as follows —

Manufacture Pickles & Chutneys at Home. INDIAN PICKLES, CHUTNEYS & MORABBAS explains the process. Industry Book Dept, Cal.

	1938-39	1939-40 (in 1,000 rupees)	1940-41
Imports	27,94	33,91	29,43
Exports	52,53	25,50	19,96

The State has a Railway System covering 41.25 miles. There is a State Bank and also a branch of the Imperial Bank of India at Porbandar.

#### PUDUKKOTTAI STATE.

The State of PUDUKKOTTAI is divided into 3 taluks, Alangudy, Kolattur and Tirumayam and the area is 1,179 square miles. There are 436 towns and villages. The chief towns are PUDUKKOTTAI, PONNAMARAVATHY, VARPET, RAMCHANDRAPURAM, ARIMALAM, TIRUMAYAM, ALANGUDY, KARAMBAKKUDY, KEERANUR and PILLAMANGALAM, ALAGAPURI. The population of the State is 4,38,348. The area under occupation is 463,312 acres.

The town is being slowly fitted up with modern industrial appliances. Granite and laterite are largely used as building material. The vegetable produces are not of any commercial use except avari (cassia auriculata) and nux vomica.

There is no well defined breed of cattle which the State can call its own. Breeding bulls of Scinde and Kangayam breeds and a Delhi buffalo bull are maintained for stud purposes in the Town Agricultural Farm.

Jack, mango, tamarind, wood apple, cashewnut, portia casuarina and citrus trees also are cultivated in favourable centres. Cultivation of milling variety of canes has been introduced and extended.

Next to agriculture, weaving is the most important industry carried on in the town, TIRUVAPPUR, KARAMBAKKUDY and PARAMBUR. Wool spinning and weaving is carried on, on a small scale in SELLUGUDI, MELUR, VAITIKOIL and KALLUKARANPATTI. Baskets, winnows and fans, are made from palmyra fibre and leaves as well as from country dates and forest twigs, in PERAIYUR, MIRATTUNILAI and a few other villages. Coconut leaves are plaited and used as thatching material and screens. Chetty women excel in making pretty little baskets from the strips of palmyra leaf. Different patterns and sizes are made. Brushes of all kinds are now prepared and sold locally.

Soap manufacture is becoming prominent in the town and two factories are engaged in the preparation of washing and toilet soaps. Many people make ropes from fibrous plants like aloe, marul, palmyra, Deccan hemp (Pulihachai), coconuts and also from Erukkam. Brass and bell metal vessels are prepared in ALAGAPURI, ALAVAYAL, KOPPANAPATTI, VALAYAPATTI and KULIPIRAI. There is a match factory in the PUDUKKOTTAI town. It makes three grades of safety matches and the products are sold in and outside the State. Flooring tiles and bricks are manufactured in ELLAIPATTI, MUTHUODAYANPATTI and KOSALAKUDI and town (Adappanvayal) brick kilns. Pottery is also carried on to meet the local needs by Kosavars in KOSALAKUDI, MALAYUR, VARAPPUR, TIRUVENGAVASAL and SEVALUR. Multi-coloured flooring and ceiling tiles, bricks, drainage pipes, balustrades, posts, slabs, ovens, flower vases, etc. are made of cement in some factories in the town. Numerous power driven mills are run in the town and all over the State for husking and polishing rice. There are also 3 flour and condiment mills and power driven plants for powdering coffee. Besides, groundnut decorticators have also been installed in ALANGUDI and other places where groundnut is largely grown. Hides are purchased locally and tanned in the town and

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KIRANUR tanneries on a small scale Manufacture of palm jaggery and sugarcane jaggery is being tried in four villages and the results have to be watched Cane crushers and boilers have been used in RAYAVARA, KOLLAGUDI, SATTANUR and KILLANUR for manufacturing jaggery

The chief articles of export are granite slabs and posts, grinding stones, mortars and pestles, fuel (casuarina and country wood), jack fruit, mangoes, groundnut, yams avarai barks, acacia bark and nux vomica seeds

The chief articles of import are salt, paddy, straw, hardware, tobacco, betel leaf and arecanuts plantain, fruit, sugar and coffee seeds, timber Calicut tiles and bricks, Cuddapah slabs, cotton and silk goods, petrol and kerosene oil

Internal trade is carried on at the shandies or markets which are both collecting and distributing centres The most important weekly shandy of the kind and the biggest one is held on Friday at the capital town The chief articles that are brought for sale in the markets are paddy, cereals, pulses and condiments Fish, straw and vegetables are also sold A big cattle fair is also held on the shandy days

**Communication and Transport:**—Trichinopoly-Manamadura Railway line connects Trichy with Pudukkottai and other important places in Ramnad and Madurai districts Motor buses also ply from Trichy, Tanjore and Madura districts to the capital town wherefrom branch lines run to all the important villages in the State Commercial articles are transported by railway motor lorries and by carts

#### PUNJAB AGENCY STATES.

The Punjab Agency States covers an area of 31,241 sq miles and has a population of 5,459,000 The principal States in the Agency with their population are LOHARU (23,338), SIRMUR (148,568), BILASPUR (100,994), MANDI (207,465), SUKET (58,408), KAPURTHALA (316,757), MALERKOTLA (83,072), FARIDKOT (164,364), CHAMBA (146,370), PATIALA (1,625,520), JIND (324,676), NABHA (287,574), and BAHAWALPUR (984,612)

#### RAJKOT STATE.

The RAJKOT State has an area of about 282 4 sq miles with a population of 1,03,100

A tramway service has been established by the State between Rajkot and the Beti River

RAJKOT is situated at the junction of three Railways, viz (1) the Gondal Railway including the Jetalsar-Rajkot Railway, (2) the Jamnagar-Dwarka Railway and (3) the Morvi Railway The four trunk roads of Kathiawar namely, (1) the Rajkot-Junagadh Road, (2) the Rajkot-Bhavnagar Road, (3) the Rajkot-Wadhwan Road and (4) the Rajkot-Nawanagar Road converge at Rajkot where the Agency Headquarters are located To facilitate transport, the State runs a motor service between Rajkot and Atkot and Rajkot and Chotila

The principal crops are grain, sugarcane, cotton, groundnut which are largely exported in addition to ghee, yarn, molasses, copper and brasswares, castor-oil seeds, white and black stones, hides and skins Chief imports are hardware, copper and brass metal sheets, timber, silk, ivory and chemicals

**Industries:**—The following are the existing industrial concerns 1 Rajkot Spinning and Weaving Mills, 26 flour mills, 2 oil mills, 40 soap factories, 2 ice factories, 13 metal works, 1 foundry, 6 steel trunk factories, 15 printing presses, 26 tanneries, 6 wool carding factories, 1

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cotton milling and pressing factory, 1 peppermint factory, 7 saw mills, 10 motor car repair works

Building lime stone of a fair quality which is quarried in the outskirts of the Beti River, supplies local requirements and even exports to other places Black hard stone quarried from the bed of the Aji River also serves as a good building stone

#### REWA STATE.

REWA is the biggest State in the Central India Agency with an area of 13,000 sq miles and a population of 18,20,306 The two Railway lines G I. P Rly and B N. Rly pass through the South and South-West portion of the State The Great Deccan Road passes through the capital which is connected to the various parts of the State through a network of roads on most of which buses ply regularly There are 1,030 miles of roads and several new roads are under construction The nearest Railway Station is Satna (G I. P. R.) which is 31 miles from the Capital town Rewa

In Kharif the staple crops are rice and kodan, which are grown all over the State Cotton and sugar-cane are also grown in certain parts Wheat and gram are the main rabi crops but linseed is also sown largely in the north In southern Rewa, maize is a popular crop but mustard is also grown in this part

The State is rich in forest wealth The Chief timber species at present commercially important are sal and teak. Bamboos are found in abundance and there are still large areas which, due to their present inaccessibility, still remain to be tapped Rewa sticks (Solid bamboo sticks) and Balees (used for country Charpoys) are already famous in in parts of Western U P and the Punjab About 2 lacs maunds of myrobalans are collected and about 2,000 mds. of Katha (Catechu) are manufactured annually The State produces about 50,000 mds of stick lac Honey, gum, wax and several other forest products are produced and exported in varying quantities Large quantities of bamboos, bagai and sabai grasses are exported outside the State which would serve as good raw material for a paper mill

**Mineral.**—The State is very rich in mineral deposits The important economic mineral deposits occurring within the State are coal, corundum, ochres, lime stones, gypsum and sillimanite and bauxite All of these except the last are being worked on an appreciable scale Out of 2,000 square miles of coal bearing area, at present three coal mines, one at UMARIA, the other at BURHAR and the third at BIR-SINGPUR are being worked and a fourth is going to be operated very shortly Lime-stone and other raw materials required for the manufacture of cement are available in large quantities near Satna railway station and it may prove a good site for a Cement Factory Extensive bauxite deposits which are rich in alumina are available in the Maikal Hill range Among other minerals of the State are copper ores, iron ores, galena, mica, pot-stone, felspar, soda trap pebbles, garnets, ballast and road metal, building and ornamental stones Out of the extensive thick beds of fire clay deposits lying on both sides of the B N Rly, at present, only the deposit—close to Chandia Rly Station is being worked The proximity of Chandia to Umaria Colliery is another point in favour of establishing an industry at CHANDIA for the manufacture of fire-bricks, tiles, glazed and sanitary ware etc

The nature has been bounteous in giving more than half a dozen of water-falls, many of which are of great potential economic and commercial value for generating cheap power

**Fairs:**—At Deo Talab (Tahsil Maungu), 30 miles eastward from Rewa, the fair is usually held thrice in the year, from the 13th of

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Shukla Paksha (second fortnight) of Asadh to 13th of Krishna Paksha (first fortnight) of Sawan, from 13th of Shukla Paksha of Kartick to 13th of Krishna Paksha of Aghan, from 13th of Krishna Paksha to the 15th i.e., Puranmashi (full moon day), of Shukla Paksha of Phagun Merchants and traders dealing in cloth, vessels, gold and silver are drawn there from the Satna, Rewa and Mirzapur markets besides retail and petty dealers from short distances. At Amarkantak, near the Pendra Road Station on the B N Ry., a fair is held from the 11th of Shukla Paksha of Phagun (Hindu month) and lasts for 15 days. A fair is held at Anandgarh 16 miles from Rewa, from the Ramnaumi day (7 days). It is notable because of the Industrial and Agricultural exhibits. Elephants and camels, horses and bulls etc., are sold.

A fair at Semara, at a distance of 25 miles from Saina Railway Station, commences from the Basant Panchmi day (three days).

**Transport**—A branch line of the G I P Ry. passes through that tract of the State where extensive deposits of ochres sand and lime stones occur. The dense forests and rich coal, fire-clay and gypsum deposits are traversed by a branch line of B N Ry.

**Trade**—The Baghelkhand Bank, Rewa affords all reasonable credit facilities at moderate rates.

### SANDUR STATE

The soil of the SANDUR State is well adapted for the cultivation of European vegetables. Forests abound in sandalwood which is as rich in oil content as that of Mysore. The State holds extensive and excellent deposits of very important economic minerals, especially manganese and iron. The manganese ore in the State, especially in certain localities is very rich in manganese and contains a high percentage of pyrolusite. "Area for area Sandur deposits probably contain the largest manganese reserves so far found." Sandur manganese was formerly exported largely to Continental markets, mainly to Belgo-Luxemburg consumers, to the United Kingdom and Japan and commanded first grade unit prices from continental buyers. It has been found to be very useful in the manufacture of ferro-manganese. It appears to be suitable for application in the paper industry or for high quality porcelain and refractory manufacture.

The State has also extensive deposits of red and yellow oxide of iron which have been found to be very useful in the manufacture of paints by leading firms in Bombay and Calcutta, who import this commodity in large quantities. Paints manufactured out of Sandur oxides of iron have been found to satisfy India Supply Department's requirements. Very many facilities are offered to manufacture paints in the State. The gold quartz found in the area in the vicinity of Tarana-gari contains indications of promising reefs at very moderate depths. Enormous quantities of high grade jasper, most useful for the manufacture of mosaic-tiles is found in Sandur Hills. Dr V S Dubey of the Benares Hindu University, who visited the State recently, reported very favourably on all these deposits.

Ramgad Technical Training Centre is opened by Government of Sandur on Ramgad Hill Station the climate of which is very healthy and bracing. Ramgad is reached by car either from Bellary or Hospet in Madras Presidency. There is provision for 300 Trainees. The courses taught are—Carpentry, Smithy, Fitters, Upholsterers, Electricians and Engine artificers.

There is arrangement for boarding and lodging, Electric lights water-pipes and Medical attendance.

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There is parade in the morning and games like foot-ball, cricket, etc., in the evening

All courses are of 5 months' duration, after the completion of which Trainees are taken in service in their respective lines. If any trainee wishes, he is recommended for Army, Navy or Indian Air Force

#### SAWANTWADI STATE.

SAWANTWADI is one of the ancient Mahratta States in Western India. It is a compact territory unbroken by the lands of other States or Districts and is about fifty miles long and from 10 to 30 miles broad. The State comprises an area of 930 square miles and is bounded on the north by the Malvan sub-division of the Ratnagiri District and is separated by the line of the Sahyadri hills, on the north-east from Kolhapur territory, and on the east and south east, from the British District of Belgaum. To the south lie the Dicholi and Pedna sub-divisions of the Portuguese territory of Goa, and on the west and north-west the Ratnagiri sub-divisions of Vengurla and Malvan. The general aspect of the country is strikingly picturesque. The population of the Sawantwadi State is 2,52,170 according to the Census of 1941. Out of which 1,21,476 are males and 1,30,694 are females. The ratio of literacy to the total population is 17.3 as compared with last Census which was 7.6. For administrative purposes the State is divided into two Pethas viz, Kudal and Banda. Each Petha is in charge of a Kamavisdar. Both the officers are responsible to the Diwan of the State.

The State pays no tribute to the British Government. It is rich in forests of teak especially near the Sahyadri hills—blackwood, ain, kher and jambha. Near the sea the more important trees are the jackwood, mango and bhirand. The principal fruits are mangoes, plantains, citrons, limes and jack fruit. Coconut and cashew-nuts are very plentiful. The staple agricultural produce in the State is rice but the quantity being insufficient for the wants of the people, a good deal is imported from outside. Iron ore of fair quality is found in the neighbourhood of the Ramghat in the Sahyadri Range. The Akeri stone, a slate—coloured talc-schist, extremely hard, compact and heavy, is unvalued for building purposes. The principal sources of income are (1) Land Revenue, (2) Forest and (3) Abkari. The gross revenue based on the average of the five years is Rs 6,42,957.

The principal industries of the State consist of gold and silver embroidery work on both leather and cloth, fans, baskets and boxes of khush-kas grass ornamented with gold thread and beetle wings, lacquered toys and playing cards, and elegant drawing-room ornaments, carved from the horn of the buffalo and bison.

#### TRAVANCORE STATE

TRAVANCORE STATE, which has an area of 7,624 sq miles, and a population of 6,070,000 is the most picturesque part of South India. Pre-eminently an agricultural country, her principal crops are rice grown on an area of 663,000 acres, coconut comprising 577,000 acres, palm, pepper, arecanut, jack, tapioca, ginger and cardamoms. Coffee and tea are grown on 84,000 acres of her highlands. Travancore has also 97,125 acres of rubber plantations.

The waterfalls in the High Ranges, the home of tea and rubber, are being harnessed to generate electric power. The Palliavasal Hydro-Electric Scheme is designed to supply cheap power for conducting agricultural and industrial operations.

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Cotton weaving, manufacture of coir mats and matting, making bricks and tiles, extraction of coconut oil, manufacture of paper, roasting and finishing of cashewnuts, mining of monazite, ilmenite and zircon form the chief industries of the State ALLEPPEY is the centre for the coconut and coir industry and QUILON has several factories. There is a rubber factory at TRIVANDRUM and a clay refining and porcelain factory at KUNDARA.

The soft woods and the numerous varieties of reeds, bamboos, grasses, etc., provide excellent raw material for the manufacture of rayon, paper and the several cellulose industries.

The principal exports are the products of the coconut tree, such as copra, coir, oil and nuts, and pepper, jaggery, arecanuts, dry ginger, salted fish, timber, hides, tamarind, tea and coffee. The chief imports are tobacco, rice, piecegoods, cotton and yarn.

The total value of the foreign sea borne trade of Travancore ports of which the most important are ALLEPPEY and QUILON is as follows —

	1936-37	1937-38	1938-39	1939-40	1940-41
			(in lakhs of rupees).		
Imports	39	1.31	1.40	1.26	1.12
Exports	188	153	161	158	87

Among imports, the principal articles were grain, pulses, etc. mainly rice (Rs 60 lakhs), fruits and vegetables dried etc., mainly cashew nuts (Rs 39 lakhs), tobacco raw (Rs 4 lakhs), machinery, mill work and metals chiefly iron and steel (Rs 1 lakh), instruments, chiefly electrical (Rs 3 lakhs).

The principal item of export from Travancore consists of coir manufacture, shipments of which during the year were valued at Rs 39 lakhs as against Rs 106 lakhs in 1939-40. Of these coir mats and mattings accounted for Rs 15 lakhs, the United Kingdom taking Rs 10 lakhs as against Rs 29 lakhs in 1939-40. Shipments of coir yarns were valued at Rs 11 lakhs while exports of other sorts of coir manufactures, mostly to the United Kingdom, accounted for Rs 13 lakhs. Ilmenite comes next, and exports during the year were valued at Rs 20 lakhs as against Rs 21 lakhs in the preceding year. The bulk of the shipments of ilmenite went to the United States of America. Dried fruits and vegetables mainly cashewnut kernels accounted for Rs 5 lakhs. Exports of raw rubber, monazite, spices, chiefly pepper and ginger were valued at Rs 2 lakhs each, and dyeing and tannin substances chiefly turmeric were valued at Rs 1 lakh each. Exports of fibres for brushes and brooms were valued at Rs 3 lakhs.

**ALLEPPEY PORT** —At this port the chief articles of exports are coir manufactures, pepper, raw rubber, tea, dry ginger and copra which increased during the year 1938-39 to 66,548 tons against 58,293 tons last year. The imports are metals, cotton piece-goods, manufactured tobacco, etc. Among the minor exports, important are cashewnut kernels, dry ginger, fish and turmeric. Imports during the year 1938-39 decreased to 34,997 tons valued at Rs 70.42 lakhs as compared with 47,073 tons valued at Rs 85.03 lakhs last year.

**QUILON** —The principal articles of import are unmanufactured tobacco from Ceylon and cashewnuts from the African coasts. The chief exports are tiles and manufactures of wood and timber.

**COLACHEL** —The exports from this port are ilmenite, monazite and palmvrah fibre.

Other centres of trade in Travancore are KOTTAR, KAYANCOLAM, CHANGANACHERRY and KOTTAYAM.

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Travancore is abundantly provided with the means of communication, both roads and waterways, and TRIVANDRUM, the capital, has a fine air port, which is linked up with the airways of the world.

Two industrial and agricultural exhibitions are regularly conducted in South Travancore, one under the auspices of the Y M C A, at MARTANDAM, and the other, the Vavubali Exhibition at KUZHITHURA, besides the one held at TRIVANDRUM every year in connection with the birthday of His Highness the Maharaja. In addition to these, several exhibitions are conducted from time to time in different parts of Travancore under the auspices of various organisations.

#### UDAIPUR STATE.

UDAIPUR STATE in Rajputana has a total area of 1,052 square miles, and a population of 97,730.

The principal crops in autumn are maize, jowar, til, cotton and sugarcane, while in the cold season the important staples are wheat, barley, gram and poppy. Irrigation is mainly from wells of which there are several thousands.

Among the minerals, lead, zinc and iron are found in the State but are not worked. White marble is available at RAJNAGAR and black marble near CHITOR. Sandstones occur near DHEBAR.

The chief products of manufacture in the State are swords, daggers, embroidery, ivory, tin utensils, stone toys, earthen jars, wooden bangles and cotton cloth printed in gold and silver.

#### WANKANER STATE

The principal agricultural products of the State (area, 417 sq miles, population 44,280) are grains, sugarcane, cotton and ghee. A good quality of limestone suitable for building and lime making and sandstone of a superior kind are obtainable in large quantities in the State. Clay suitable for making Mangalore tiles, fire-bricks, and porcelain occurs over a large area near WANKANER town as also many varieties of Chalcedony stone.

There is one cotton weaving and spinning mill in the State with two cotton ginning factories and one cotton press. Other industries include silk and cotton hand loom weaving, pottery, etc. The china silk cord of Wankaner make is well-known in the market and finds a ready sale far and wide.

WANKANER is a Railway Junction connecting lines from Rajkot, Morvi and Wadhwan.

The famous ancient temple of Shri Jadeshwar Mahadev is situated in Wankaner territory about 7 miles from the capital and is a place of pilgrimage.

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## MARKET PLACES OF NEPAL

**N**EPAL is an Independent Kingdom occupying the southern ranges of the Himalaya mountains and across the northern frontier of British India. It is bounded on the north by Tibet, on the west, by the British districts of Pilibhit, Kheri, Bahraich, Gonda, Basti, Gorakhpore, Champaran, Muzaffarpore, Darbhanga, Bhagalpore and Purnea, on the east by the British district of Darjeeling and the State of Sikkim. Nepal is about 450 miles in length from east to west and 160 miles in breadth. The area of Nepal is about 56,000 square miles and has a population of about 55,80,000. The chief languages generally spoken are Nepali, Newari, Tamang, Gurung, Magar, Kiranti, Bhutia and Hindustani.

**Agriculture**.—It is largely an agricultural country, having vast agricultural resources and potentialities. The principal crops of the country are rice, wheat, maize, millet, barley, buckwheat, oats, oil-seeds, red pepper, potatoes, cauliflowers, cabbages, radishes, sugarcane, ginger, turmeric, coriander seeds, garlic, onions, tomatoes, red potatoes, gram, etc. A Krishi Parishad (Board of Agriculture) has been established to look after the agricultural development of the country, with its head office at Kathmandu, Nepal.

**Animals**.—Poultry-keeping and breeding forms a common feature in rural and urban areas. Cows and buffaloes are usually reared, mostly by agriculturists, partly for dairy purposes, and partly for manure and ploughing in the rural districts. Ghee manufacture and honey culture form subsidiary sources of income in the village and hill districts as ghee and honey command a popular market all over the country and are exported to different parts of British India. Sheep breeding and wool culture form favourite and useful leisure-time hobbies amongst the farmers and hill weavers. Horses of local and foreign breed are usually reared by civil and military circles. Elephant breeding and hunting form favourite pastimes in princely circles. Buffaloes and goats are imported from the west and sheep from Tibet.

**Banking and Finance**.—Nepal Bank Limited was opened in November 1937 under the Nepal Bank Act 1993 Vikram Samvat with authorised capital of rupees one crore in Nepalese currency, issued capital being rupees twenty-five lacs. It is financing the export and import trade of the country and has agents in foreign countries.

**Industrial Exhibition**, held usually every alternate year lends great impetus to industrial development in Nepal. It is organised by the Udyog Parishad (Development Board).

**Sylviculture**.—The forests of Nepal are famous for their various kinds of timber and wood especially the well-known Sal trees, and attract a fair source of income to the Government by allowing leases to Nepalese and Indian contractors. Some of them are being used for match and frame factories. Indian paper mills take in almost all the available sabai grass which also fetches a good revenue to the Government. They abound in numerous herbs and drugs which are in constant demand amongst Ayurvedic dispensaries and physicians also from allopathic doctors and manufactories. They are also exported.

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by local merchants and the Government Botanist has been deputed to collect and sell and export them through centralised marketing centres. Nepali paper plant is well-known for its excellent and durable paper pulp and supplies raw materials to the local paper mills.

Cedrela, adina, schleicheria and eugenia found here in plenty, are of great economic importance. Himalayan tea and rubber trees have also been located. Resin, shellac etc. are also available in plenty. Steps are being taken by the Government to conserve the forests and develop their natural products.

**Mines and Mineral Deposits:**—There are several rock deposits suitable for various industries. Mica, cobalt, asphalt, antimony, iron, copper and graphite mines are existent. Amongst precious stones barytes and corundum have been found out. Coal and coal deposits have been located at Kapundol and other places. Various kinds of silica, earth, stone and sand are available for ceramic industries. Rock-salt deposits are being explored at Thak, north-west of Nepal. Facilities for salt, ceramic and hydro electric and other important surveys are being afforded by the Government.

**Cotton Cultivation & Textile Manufacture:**—Hand spinning and weaving form the home industries in rural and urban areas. They form the leisuretime hobbies of the womenfolk and there are still cottage industries in the cities of LALITPORE and BHAKTAPORE. The flyshuttle and Hattersley and Japanese automatic looms find a place in some factories in the cities. The Government Technical School provides free teaching in textile manufacture, dyeing and bleaching to all. The Central Jail Department has weaving and hosiery sections and has also introduced power weaving for the manufacture of Khaki cloth for the Army. It has also a section for the weaving of carpets and durries. Under the auspices of the Udyog Parishad (Development Board), the Nepal Vastrakala Prachar Sanstha (Textile Institute) has also been set up to supply yarns at minimum rates to weavers and to demonstrate the utility of up-to-date hand and power looms and appliances. The Chandra Kamdhenu Charkha Prachar Mahaguthi established by the Government about a decade back, is spreading hand spinning, weaving and dyeing as home industries amongst women and all. For further organisation and development of Nepali Khadi and cottage industries in Nepal, the Department of Cottage Industries has been set up. The Government has also arranged for further experimental cotton culture in different parts of the country by introducing best varieties of cotton seeds of the world. Woollen blanket weaving, carpet weaving and embroidery work are subsidiary industries to-day.

**Exports From Nepal Into India:**—Since time immemorial India and Nepal have been carrying on import and export trade. Nepal exports raw and ready-made materials to different provinces of India. Amongst the exports might be mentioned grains, oilseeds and pulses, cattle, sheep, and ponies, animal hides and skins, Himalayan drugs, herbs and spices, sabai and other kinds of grass, timber and various woods, mine and mineral products like iron, saltpetre, mica, cobalt, antimony, graphite, jute and cane products, wax, honey and yoktails (Chamars) wool and woollen shawls, borax, madder and resins, gorchuan, musk and shilajit, Nepalese and Tibetan art curios, and Buddhistic and artistic metal wares, Himalayan crystal, and art crystal images etc., stone and ivory artwares, cloth shoes and boots, rudraksha and pure Nepal incense and candle sticks. The total exports exceed Rs 251 lacs.

**Imports From India Into Nepal:**—Nepal imports from various parts of India specific goods such as cotton and cotton yarns,

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mill dhoties and productions, Kashmere alwans, dhussas; black and rock salts, Indian spices, tobacco-leaf, betel-leaf etc; Algarh cutlery and other hardwares, Kashi printed fabrics, Dacca muslins, Murshidabad, Assam and Kashi silk and silk goods, Bombay mangoes and Kabul grapes and bedanas, etc

**Imports from Abroad:**—By the Treaty of Friendship between Nepal and Great Britain, all imports are duty-free in British Indian ports such as Calcutta. Imports from the United Kingdom and British Dominions, Japan, Germany, Italy, France, Czecho-Slovakia, Belgium, U S America, China etc, include cotton piecegoods, leather requisites, porcelainware, cutlery, machinery, silk yarn and goods, perfumery, glass and glassware, electric and radio sets and accessories, tea, etc

**Imports from India and Abroad into Nepal** exceed Rs 150 lacs

**Exports from Nepal to Tibet** include cotton and woollen cloth, cotton piecegoods, silk and silk goods, hardware, spices, herbs and drugs, rice and pulses, wheat, brass, copper, bell-metal and iron utensils, Buddhist images and metalwares of Nepalese art, cloth shoes and boots, medicines, dried fruits

**Imports from Tibet into Nepal**—include sheep and yak tails (chamars), pashmina (shawl and wool) and carpets, salt, borax, musk, yellow arsenic, gold-dust, tea, etc

**CENTRES OF TRADE** with India and Abroad are —Birgunj, Nepalgunj, Pashupatinagar (Ilam), Bhadrapur, Butaul, Dhulabari, Hanuman Nagar, Bettiah, Darbhanga, Bahraich, Gorakhpore, Bhagalpore, Pilibhit, Muzafferpore, Patna, Purnea, Darjeeling, Basti, Bahraich, Gonda, Saran &c

**Fairs:**—Of the several melas held in Nepal the chief are the Sivaratri Mela and the Bodhnath Mela, others being of local importance

**THE SIVARATRI MELA** begins some days previous to the Sivaratri Day usually in the month of February when thousands of the Hindus, pilgrims, visitors and ascetics from different parts of India come all the way to pay their respects to PASHUPATINATH and other great shrines of Nepal. Local businessmen set up shops during the mela

**BODHNATH MELA** —This usually commences in the middle of December when thousands of pilgrims, visitors and traders of Tibet, Bhutan, Sikkim, Ladakh etc, come on pilgrimage to Bodhnath and other Buddhist shrines of Nepal. The actual Mela is held usually in Magh (January), lasting for nearly a month when local traders set up their shops. A good interchange of Nepal goods for Tibetan commodities takes place

The chief cities of Nepal are.—**KATHMANDU, LALITPORE and BHAKTAPORE**

### KATHMANDU.

**KATHMANDU**, the capital of Nepal, is situated on the east bank of the Vishnumati river. Lat 27 degrees 36 seconds, Long 85 degrees 24 seconds. Elevation about 4,330 feet above sea-level. Population 134,442. Distance 622 miles north-west from Calcutta and 72 miles from Raxaul Station on the Tirhoot Section of the B & N W Railway. It is an industrial mainly commercial centre and commands a premier place in the trade and commerce of Nepal. There are numerous small industries and a large number of the chief mercantile firms carry on export and import trade in this city. It is well provided with the modern facilities for industrial purposes such as electric energy for industrial purposes, transport services such as ropeway transport, trolley and motor services. Besides, the Central Customs Department is located here. The highly artistic carvings and architectural build-

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ings and shrines exhibiting the Nepalese school of art attract a large number of foreign visitors. The famous Swayambhu Nath, Kathe Simbhu, Bodh Nath and four Asokan Stupas and chartyas attract thousands of pilgrims from Tibet, Bhutan, Sikkim, etc. A fine fair takes place during the winter season at Bodh Nath. The holy Pashpatinath Temple, located two miles north-east of Kathmandu, is visited and worshiped by about 50,000 Hindu pilgrims, sannyasis and saints of India during the Sivaratri days.

#### **LALITPORE (PATAN).**

LALITPORE as the name implies, is a "beautiful city," being rich in its wonderful artistic treasures and monuments. It is famous for its stupas and temples of Asokan and Nepalese art, such as the four Asokan Stupas (Thoors), Matsyendra Nath, Maha Buddha, Krishna and Kwabhat. It is visited for its highly artistic memorials by eminent people and scholars of the East and the West. Population 133,947. It is the second city of Nepal, two miles south of Kathmandu, situated on the eastern banks of the Bagmati. It is an ancient industrial and commercial town with a major number of arts and manufactures, industrial artisans and smiths, and of merchants and traders supplying home-made and imported goods to the towns, districts and villages lying in the southern and south-eastern valley of Nepal and exports to India, Tibet, Bhutan, Sikkim and abroad, forest products, metalwares of Nepalese and Buddhist art, crystal goods, curios, Himalayan products etc.

SUB-TOWNS —KIRTIPORE (Agricultural centre), PHARPING (source of Nepal premier hydro-electric power), BUNGAMATI (agricultural centre), KHOKNA (mustard oil manufacturing centre), CHAPAGAON (forest product), HARSIDDHI (agricultural centre), GODAVARI (herbs and marble quarries), LELLE, etc.

#### **BHAKTAPORE (BHADGAON).**

It is the third city of Nepal, and is noted for its agricultural produce, curd, pottery and minor village industries. It is situated seven miles east of Kathmandu. It is well-known for its ancient architectural temples and buildings, mostly of mediaeval Hindu art. Population is 93,170. It was electrified by the Government in 1939.

#### **BIRGUNJ.**

It is an important transport centre, being nearest to the British Indian main frontier railway station, Raxaul, in the Champaran District on the Tirhoot Section of the O & T R line. Just nearby lies the Nepal Government Railway leading upto Amlekhgunj Station, where the local motor transport service takes passengers and goods upto Bhimphedi, 22 miles from Kathmandu. Near Bhimphedi at Dhorsing commences the Aerial Ropeway Service transporting goods between Dhorsing and Matatirtha, near Kathmandu. Telephone facilities were extended in 1939 by the Government making direct communication between Kathmandu and the British Indian frontier, Raxaul. The Juddha Match Factory Limited, incorporated under the Nepal Companies Act, and other factories are also situated here.

#### **BIRATNAGAR**

It is a growing and prosperous town with a population of 68,571. Various kinds of Nepal produce are exported and foreign goods are imported. It is growing as an industrial and commercial centre. The Biratnagar Jute Mills Limited, the Nepal Chemical Industries Limited and some rice mills are located here.

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# TECHNICAL INSTITUTIONS

WITH PROSPECTUS.

## AGRICULTURAL & SERICULTURAL INSTITUTIONS.

### AGRICULTURAL COLLEGE, CAWNPORE

**Educational Qualification for Admission**—For the Intermediate in Agriculture, the passing of the High School Examination with Physics and Chemistry, General Science, or Agriculture as the optional subject, or the possession of a certificate of equivalent standing, and for the B Sc (Ag), the Intermediate in Agriculture or any other examination in Agriculture recognised by the Agia University as equivalent thereto. It is proposed to institute M Sc in Agriculture and allied subjects from the session 1943

**Fees**—Admission fee Rs 15/-, monthly tuition fee and Medical fee Rs 5-4 Monthly fees are charged for ten months only

**Admission**—Applications to be made after the 15th April but not later than the 20th June Candidates may apply in anticipation of passing the Examination qualifying for admission

**Residence**—Students are required to reside in the college hostels  
**Hostel fees** Post graduate hostel, double seated suits Rs 4/- p m  
New hostels, single seated room Rs 3-8 p m Ordinary hostels, single seated room Rs 3/- p m double seated room Rs 2-8 p m, and three seated room Rs 1-8 p m per student

**Cost of living**—Including fees etc approximately Rs 40/- p m

**Admission of candidates not domiciled in U P**—A few such candidates may be admitted The tuition fee charged is Rs 1,000/- per year in case of the candidate being nominated by another Provincial Government or a State and Rs 500/- if he seeks admission on his own accord Candidates domiciled in Bihar should apply to the Director of Agriculture, Bihar, and obtain particulars from him

### AGRICULTURAL COLLEGE, COIMBATORE

The College is affiliated to the University of Madras, and the course extends over three years leading up to the Degree of Bachelor of Science in Agriculture Preference is given to applicants for the Madras Presidency and Coorg

Candidates for this course shall be required to have passed the Intermediate Examination in Arts and Science with Chemistry and any two of the subjects—Mathematics, Physics, Natural Science, Botany, Zoology including Human Physiology and Agriculture, or an examination accepted by the Syndicate of the Madras University as equivalent thereto All applications for admission should be made to the Principal Agricultural College, on or before 15th June each year Candidates must have attained the age of 17 at the time of joining the College

Students admitted from the Madras Presidency and Coorg shall be charged a tuition fee of Rs 40 per term or Rs 120, per annum and lodging fee of Rs 2-4 and lighting charges which do not ordinarily exceed Re 1, per mensem

Students from other parts of India including Indian States will be charged a fee of Rs 400 per term or Rs 1,200 per annum, payable in advance for tuition and lodging

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## 600 INDUSTRY YEAR BOOK & DIRECTORY, 1943.

Facilities are offered to graduates in Agriculture and in pure science to do research work and qualify for the MSc Degree of the University of Madras.

To meet the needs of young men who cannot undergo the Degree Course in Agriculture for lack of preliminary qualifications a Short Course in Practical Agriculture lasting for ten months is given

### AGRICULTURAL INSTITUTE, ALLAHABAD, U P.

Intermediate Examination in Agriculture —This is a two year course under the Board of High School and Intermediate Education U P Every candidate for admission must have passed the Board's High School Examination, or an examination equivalent thereto The annual fee Rs 21-8, monthly fees Rs 10 (tuition), room rent, single room Rs 4 and 3-men room Rs 2-8, light and water about Re 1-8, annual deposits Rs 18 subject to refund at the close of the year

BSc in Agriculture—This course is given by Allahabad University to which application for admission must be made All instruction is given at the Institute Candidates must have passed the Intermediate examination in agriculture This is a two years' course Specialization is allowed in Agronomy, Pomology or Animal Husbandry and Dairying Annual fees Rs 13, monthly, tuition Rs 12, and lab, Rs 2, room rent, light and water as in the Intermediate course, annual deposits, Rs 15, subject to refund at the close of the year

BSc in Agricultural Engineering —This is also a two years' course given by Allahabad University, with the same requirements for admission and the same fees It is the only degree course in agricultural engineering in India

Indian Dairy Diploma —This is a course of 2 years under the Control of the Imperial Dairy Department Candidates must have passed the High School Examination or an examination, equivalent thereto and be over 17 years of age Annual fees Rs 23 Monthly fees Rs 15

Note.—School year begins in 1st week of July and applications for admission should be made by the middle of June

### CHINSURAH GOVT. AGRICULTURAL SCHOOL, CHINSURAH.

The minimum educational qualification is a pass Matriculate or its equivalent The candidates must be of strong physique and between 17-20 years of age

The course extends over a period of two years commencing from January It will include lectures and practical works in Agriculture, Botany, Dairying, Poultry farming, Veterinary science, Insect pests, Surveying, Levelling and Estimating It also includes lectures in Co-operation, and Farm accounts

Accommodation is provided in hostel attached to the School No tuition fee is charged

Each student is allowed a plot of land on which he is personally responsible for the cultivation of crops The students are required to join in the cultivation work on the farm attached to the School and assist dairy, poultry and gardening works

### COLLEGE OF AGRICULTURE, NAGPUR.

The courses of training given at this Cottage are —(1) The University or Degree Course, (2) The Certificate or Short Course

In addition to the Degree of BSc (Agr), the Nagpur University has made provision for the Degree of Master of Science in Agriculture

**COMMON FAULTS & ERRORS:** A guide to writers and speakers in English. As. 5. Industry Book Dept., Shambazar, Calcutta.

—MSc (Agi)—and the Degree of Doctor of Philosophy in the Faculty of Agriculture (Ph D).

The Degree course is a full course of agriculture, together with its allied branches of knowledge extending over 4 years. Applicants must be between 16 and 22 years of age.

The qualification ordinarily required, for entry into the College, for the Degree Course is a II Division Pass in the Matriculation or School Leaving Certificate Examination of the C P Board. Preference will be given to those, who have included Mathematics I & II, and Physics, in the subjects offered, for the examination.

The Certificate Course is a pure Agricultural Course with the minimum of science, and extends over two years (about 20 months of study). This course is held in abeyance at present.

Application for admission must be made by the 15th June at the latest.

For the degree course a tuition fee of Rs 102 per annum is charged to each bonafide resident of the Central Provinces and Berar, but sons of bona-fide agriculturists will on production of a certificate from the Deputy Commissioner of their district, be charged at the rate of Rs 68 per annum, provided that if two sons of an agriculturist are on the rolls of the College at the same time, one of them will be charged a fee of Rs 34 only. This will be recovered in advance, or in 8 monthly instalments.

Students who are not bona-fide residents of the Central Provinces and Berar will be required to pay a fee of Rs 1,000 per annum payable in advance, or in 8 monthly instalments.

#### COLLEGE OF AGRICULTURE, POONA.

The College offers training in the Bachelor's and Master's course in agricultural science of the Bombay University. Admission limited to 75 every year.

There are two terms per session and the degree course consists of three sessions. The terms are annually—First Term, 1st May to 15th September, Second Term, 1st October to 7th February.

Fees. Per session—Tuition Rs 150 for insiders and Rs 300 for outsiders. Room Rent Rs 40. College Gymkhana Rs 10, College Magazine Rs 2.

In addition to the college fees mentioned above the University of Bombay has decided that a fee of Rs 20 should be paid by any student joining a college affiliated to the University of Bombay at any time if he is not a matriculate of the Bombay University.

Application for admission should be made before 15th, April every year.

Messing is managed by the students forming clubs. The monthly expenditure comes to about Rs 20 to Rs 25.

#### DACCA SECONDARY AGRICULTURAL SCHOOL, DACCA

The minimum educational qualification is a pass certificate from class VIII of High English School. The candidates must be between 17 and 20 years of age. 75 per cent of the seats are reserved for the sons of bonafide cultivators. The course will extend over a period of two years commencing from 15th January. Instructions are given in Bengali.

No fees are charged for tuition. All students must stay in the attached hostel. Messing charges come to about Rs 10 per month. 25 to 27 students are admitted each year.

**COMMON FAULTS & ERRORS:** A guide to writers and speakers in English. As. 5. Industry Book Dept., Shambazar, Calcutta.



## 602 INDUSTRY YEAR BOOK & DIRECTORY, 1943

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Application for admission should be made in prescribed form early in November and selection is made in December

### **IMPERIAL AGRICULTURAL RESEARCH INSTITUTE,**

**New Delhi.**

Specialised courses are given in Agricultural Botany, Mycology, Entomology, Agricultural Chemistry, sugarcane breeding and in Farm organisation and management. Distinguished science graduates, graduates of agricultural colleges and selected officers of Agricultural Departments are eligible for admission

Intending students should apply to the Director, Imperial Agricultural Research Institute through the Director of Agriculture of the province or State in which they are resident so as to reach the latter on or before the 15th August. Courses commence from 1st October and last for 2 years except in the case of the course in farm organisation which lasts for a year

A tuition fee of Rs. 25, per month is charged from each student which is payable in advance for each term. Furnished rooms in the hostel are provided for accommodation, but the students have to make their own arrangements for meals and to pay water and electrical charges of Rs 5 per month per head

Expenses of living do not exceed Rs 40 to Rs 50, per head monthly. In addition to the fee, a sum of Rs 15 to Rs 30, is required for purchase of books.

### **MYSORE AGRICULTURAL SCHOOL, HEBBAL, BANGALORE.**

The School trains efficient and intelligent agriculturists. The course covers Geology, Botany, Mycology, Dairying, Veterinary Science, etc

In selecting students preference will be given to those whose parents own land in Mysore and are engaged in supervising its cultivation. Admission will be given to those who have passed the S S L. C. Examination (E C & P. S.)

The course extends over three years. No fee is charged for tuition. Medical attendance is free. No rent is charged for rooms and furniture. Government provides a number of scholarships.

A preliminary Entrance Examination in English and Arithmetic is held on the first Monday of July. Session commences on the first of June.

The successful candidates at the end of the third year will be given the Diploma of Licentiatehip in Agriculture (L.Ag.)

### **PUNJAB AGRICULTURAL COLLEGE, LYALLPUR.**

The following are the courses of study: (a) A course for M.Sc (Ag) extending over 2 years, (b) A course for the B.Sc (Ag) Degree in agriculture, extending over four years. The subjects taught include agriculture, chemistry, physics, botany, elementary zoology and entomology, veterinary science, mathematics, English, agricultural economics, land revenue and agricultural engineering including land surveying.

About 80 students are admitted each year for the degree.

For the degree course, the minimum qualification for admission is the matriculation examination of the Punjab University or any other equivalent examination. Medium of instruction is English. Applications for admission to the degree and leaving certificates courses must

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be made before 20th April each year or any other date fixed by the Principal

For degree students the total cost of living in the college, inclusive of tuition and other fees, is about Rs 40 to Rs 45, per month in the first and second years, and Rs 45 to Rs 60 per month in the third and fourth years. Non-Punjab students are charged per Capita, charges @ Rs 800 per annum per head

Besides the above, the following courses are given —

(1) A Vernacular course of a year's duration. Date of admission 1st April every year. Tuition fee Re 1 per mensem for Punjab students and Rs 5 per mensem for non-Punjabis. Medium of instruction—Urdu. 100 students admitted, (2) Teachers' Training Class of one year's duration. Admission takes place on 1st of May every year. No tuition fee is charged from Punjab students, Annual fee of Rs 300 from non-Punjabis, (3) Mali Class. Duration one year. Date of admission 1st October every year. Tuition fee Re 1 per mensem for Punjab students and Rs 5 per mensem for non-Punjabis. 30 students admitted, (4) A six-months' Dairy Class on alternate years. Admission on 1st October every year. Tuition fee Re 1 per mensem for Punjab students and Rs 25 for the whole course for non-Punjabis. 10 students admitted, (5) 2 months Dairy Class for men on alternate years on 2nd January. 10 students, who can read and write Urdu are admitted. Tuition fee Re 1 per mensem for Punjab students and others Rs 10 in all, (6) 2 weeks Dairy Course for women. 10 Punjab students who can read and write Urdu are admitted. The class starts—November on alternate years, (7) An advanced course in Fruit and Vegetable Preservation of 7 months. Admission made in June every year. A tuition fee of Rs 20 is charged every month from Punjab students. Non-Punjabis have to pay Rs 400 in addition for the whole course. 6 students admitted, (8) A fortnight's Summer Fruit and Vegetable Preservation Course. Admission on 15th July every year. Tuition fee of Rs 5 for the whole course from Punjab students and Rs 15 from non-Punjabis, (9) A ten-days' course of Winter Fruit and Vegetable Preservation. Admission in February every year. Tuition fee of Rs 5 for the whole course from Punjab students and Rs 10 from non-Punjabis, (10) A fruit Culture Course of two weeks' duration. Admission in February. Tuition fee of Rs 5 for the whole course from Punjab students and Rs 10 from non-Punjabis, (11) A fortnight's Estate Managers' Class. Admission on 10th August every year. No tuition fee is charged, (12) A Bee-Keeping Course at Katraim (Kulu) of two months' duration. Admission on 10th August. Tuition fee of Rs 5 for the whole course from officials including nominees of the Punjab Co-operative Dept, Rs 10 from Punjab students and Rs 30 from non-Punjabis, (13) A Bee-keeping Course at Nagrota of two months duration. Admission on 15th March. Tuition fee of Rs 5 for the whole course from officials, including nominees of the Punjab Co-operative Department, Rs 10 from Punjab students and Rs 30 from non-Punjabis, (14) A Lohar Class of six weeks to two months' duration. Admission on 15th January. No tuition fee is charged from Punjab students, Rs 10 from non-Punjabis for the whole course

#### SCHOOL OF AGRICULTURE, BULANDSHAHR, U. P.

This School provides facilities for the following types of training—

Diploma Course —For students who like to have full idea of the crops grown in the U. P. to follow the scientific principles underlying

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improved agriculture The course is of 2 years and includes General Agriculture, Chemistry, Physics, Botany, Zoology, Horticulture, Dairying, Veterinary and Engineering Lectures on the training of Aminship (Canal Department) are also given.

These courses begin from July each year The tuition fee for No 1 is Rs 3 per month

Qualification for admission to the Diploma course is a Matriculate or Vernacular & English Middle passed student The monthly expenses including everything come to about Rs. 20 per month

### SERICULTURAL SCHOOLS

For advanced students one year's course of training is provided in the sericultural nurseries at Berhampore in Murshidabad district and at Piasbari in Malda district Primary classes are attached to the Government Nurseries at Piasbari and Amriti in Malda and also at the Kumarpur Sericultural Nursery at Beldanga in Murshidabad

Other institutions are Mysore Govt Silk Filature, Mysore, and Sericultural School, Rajshahi

### SUPPLEMENTARY LIST.

Baroda Farm, Baroda

Dacca Agricultural School for the Teachers on Training, Dacca

## SCHOOL OF ARTS & CRAFTS.

### GOVERNMENT SCHOOL OF ART,

28, Chowringhee, Calcutta.

Courses of Study —(a) Fine Art, (b) Indian Art, (c) Commercial Art, (d) Draftsmanship, (e) Lithography, (f) Wood Engraving, (g) Clay Modelling In each subject there is an Elementary course and an Advanced course, and only in cases of exceptional ability is permission given to join an Advanced course without first completing the Elementary course

Only one subject may be taken at a time, but students who have completed one subject may afterwards take up another

The School also provides a Teachership course which can be taken by selected candidates only after the completion of a full course of studies in one of the subjects

The School year starts on the 1st July

Applicants for admission should be between the ages of 15 and 18 years and must have passed the Matriculation or equivalent examination Applications to be made by 15th June

Lady students are also admitted into the school after passing a test in drawing

All applications must be accompanied by specimens of the applicant's work in drawing and painting

The following are the monthly fees charged for instruction in the various subjects for elementary and advanced courses respectively Fine Art Rs 3 and Rs 5, Indian Art Rs 5 and Rs 5, Commercial Art Rs 5 and Rs 5, Draftsmanship Rs 5 and Rs 5, Lithography Rs 3 and Rs 3, Wood Engraving Rs 3 and Rs 3, Clay Modelling Rs 3 and Rs 3, Teachership Course Rs 5

In addition each student on admission to the School must pay an admission fee equal to the monthly tuition fee and must deposit Rs 10 as caution money

**Drink & Sell Syrup. MANUFACTURE OF SYRUP Explains the process. INDUSTRY BOOK DEPT., Shambazar, Calcutta.**

Painting Section—Time required is about 3 years Boys who have completed the course of Drawing up to final Drawing are allowed to take up painting

**MAYO SCHOOL OF ARTS, LAHORE.**

The work of the school is divided into five main sections —

Preparatory Sections Industrial Arts Section Commercial Art Section, Elementary Lithography Section and Fine Art Section

The Preparatory Section—One year's course Instruction is given in Drawing, Clay Modelling and Handicraft, such as Wood-work, Metal-work and Decorative Painting

Industrial Art Section—Three years' course Instruction is given in the following subjects—Cabinet Work, Blacksmithy, Coppersmithy and Silversmithy, Jewellery and Enamelling, Modelling in Clay and Plaster casting, Lacquer Works on wood

Fees vary from annas 8 to Rs 2 per month and Rs 5 for the Fine Art Department

**SCHOOL OF ARTS AND CRAFTS, MADRAS.**

The minimum time suggested for any one course is two years and maximum allowed is from 5 to 6 years The students are started according to their individual ability Courses of study are Wood Work (including Cabinet making and Wood-Carving), Metal Working; Jewellery, Wood and Copper-Plate Engraving and Die Sinking, Lacquerwork Dealer's and Painting, Designing including Modelling, Advanced Drawing, General Drawing, Enamelling and Ceramics

Boys from the age of 12 years are admitted Students are admitted in the first week of July provided seats are available

Fees for Fine Arts Classes, i.e., painting, modelling and advanced drawing Rs 3 per mensem for students of the Madras Presidency and Rs 6 pm for those coming from other Provinces and fees at half rates are charged to the Students of the general Drawing class of the Fine Arts Section of the School

**SCHOOL OF ARTS, TRIVANDRUM, TRAVANCORE.**

The Institution imparts instruction in Drawing, Painting, Ivory Carving, Pottery work, Smithery and Lacquer work Admissions are made once in 2 years in case of apprentices

Course extends over a period of four years, i.e., two years for the first term and another two years for the second term. The stipend at the rate of Rs 5 per mensem is paid to each apprentice for the first term and Rs 7 per mensem for the second term The minimum qualification for admission as a stipendiary is either the passing of the Vernacular seventh class or third form of an English High School Generally pupils who are below 12 years of age are not admitted They are coached up for the Madras Government Technical Examinations in Drawing and the syllabus laid down for the same is followed here Besides the stipendiaries, other students are also admitted and given instruction only in Drawing and they have to pay a fee of Rs 12 per annum for the Lower Grade and Rs 18 for the Higher grade, payable in eight instalments

The school year commences from the first working day of the month of Thai of every year Pupils who wish to study any one of the handicrafts such as Carving, Smithery, Pottery and Lacquer work are also admitted on payment of the fee of one rupee per mensem for each subject There is no boarding arrangement Admission as stipendiaries is restricted to Travancoreans

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**Drink & Sell Syrup MANUFACTURE OF SYRUP Explains the process. INDUSTRY BOOK DEPT., Shambazar, Calcutta.**

The school year is divided into two terms. The first term commences from July and extends up to December. The second term begins from January and ends by the end of April.

#### INDIAN ART SCHOOL.

250A, Bowbazar Street, Calcutta.

The School is recognised and aided by the Government of Bengal and Corporation of Calcutta and established in 1893.

Subjects taught 1 Drawing 2 Painting 3 Photography 4. Engraving. 5 Draftsmanship 6 Clay-modelling 7 Teachership Drawing 8 Commercial Designing 9 Art Printing & allied subjects

Monthly Fee 1st Year Class Rs 3, Higher Classes @ Rs 4

Hours of work 10-30 A M to 3-45 P M

Special Class for Girls From 4 to 6 P M on weekdays, and from 2-30 to 4 P M on Saturdays

Commencement of New Session January and July

#### INDIAN LEAGUE AND ALBERT TEMPLE OF SCIENCE AND SCHOOL OF ARTS.

337, Upper Chitpore Road, Calcutta, Estd 1875

**Courses of Study:**—Painting, Modelling, Lithography Engraving, Art Teachership, Designing and Draftsmanship. A student passing through classes of the Drawing Department will be qualified to take up any one of the above special courses. Some knowledge of English and Mathematics is essential. Instruction is given in Bengali as far as possible.

The School fees for the two classes in the Drawing Department are Rs 2, and for the two classes in the Art Department Rs 4 per month. The session of the school begins from January, but a student may have his admission at any time in a year.

#### INDIAN SOCIETY OF ORIENTAL ART.

12, Samabaya Mansions, Hogg Street, Calcutta.

Courses of Study include

(1) Rupa-bheda & Pramanam—Forms & Measurements, Drawing from objects and models, Perspective, Enlarging and reducing drawings, Brush-work in ink and flat colours, Wood-engraving and printing, Sculpture in stone and wood

(2) Bhava Lavanya Yojanam—Feeling and grace, Study of light and shade from natural objects, fruits, flowers, etc, etc, animal drawing and drawing of human figures, architectural details, brush-work and original composition

#### MAHESWARPASA SCHOOL OF ART,

Daulatpur, Khulna.

Subjects of Instruction —1 All sorts of Drawing, 2 All sorts of Painting, 3 Commercial Designs, 4 Clay modelling, 5 Photography, 6 Bromide finishing

The school session commences from June

The classes of the school are open to all students and outsiders for special study of Art. No tuition fees are charged.

Students are required before admission to submit their works showing their ability to profit by the course of study proposed, or to undergo an Entrance Examination or any similar test at the school.

Drawing Section—Time required is about 3 years

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Manufacture of Tobacco, Snuff, Zarda, etc., Read, INDIAN TOBACCO & ITS PREPARATIONS, Re. 1/12. Industry Book Dept., Calcutta

**GOVERNMENT SCHOOL OF ARTS AND CRAFTS, LUCKNOW.**

Application for admission must be made before June 30. An Entrance examination will be held about July 15. Applicant must be between the ages of 13 and 18 years.

The Fine Arts section, limited to 20 students, gives instruction in four branches of art work, viz., Still Life Painting, Figure and Landscape Painting, Portrait Painting from Life, Modelling from Life, pictorial design and composition in Indian style.

Metal Works Classes—Goldsmith's work (Jewellery, Gold Casting, and Engraving), Silversmith's work (Shape-making, Engraving, Casting, and Repousse), Brass and copper Smith's work (Repousse and Casting, Iron work (Hot and cold), Wood Work (Constructive, Turning, Carving, Inlaying, and Polishing), Architectural Decoration (on the flat, in colour and in relief). Applicants should have passed the 6th Class, for the above subjects.

Art Printing Dept gives instruction on Lithography and Chromo-Lithography from Stone, Zinc, and Aluminium plates, Photo-lithographic Processes, Line Blocks in Zinc, Half Tone and other Photo mechanical Processes. The average cost of living in the boarding house excluding school fees is about Rs 16 per month for each student.

**Training on Drawing Masters.**

Applications must reach the Principal not later than July 1. Applicants must be between the ages of 18 and 23 and should have passed the High School examination of the Board of High School and Intermediate Education with Drawing as an optional subject, or an equivalent examination with Drawing as a subject. No candidate who has not resided in the United Provinces for a period of at least three years prior to the submission of his application will be eligible for admission in the class.

Course of study extends over two years. Students who have passed the Diploma Examination of the Fine Art Class will however be allowed to complete their course for the Teachers' Training Class by appearing in Geometry and Practical Teaching only.

**GOVERNMENT SCHOOL OF ARTS AND CRAFTS, POONAMALLEE ROAD, MADRAS.**

The school provides instructions on Fine Arts and crafts.

Fine Arts Section—(1) Painting, 3 years' course, (2) Modelling, 3 years' course, (3) Advanced Drawing class, 1 year course, (4) General Drawing, 2 years' course. Admission granted only to those who are able to profit by the study. Fees Rs 5 per mensem for the students coming from outside the province and Rs 3 for students coming from this province.

Drafts Section—This section consists of (1) Wood Work Department, 4 years' course, (2) Metal Work Department, 3 years' course, (3) Goldsmith Department, 3 years' course, (4) Engraving Department, 4 years' course, (5) Design Department, 3 years' course. Fees free.

Enamelling Section—2 years' course. Admissions are restricted to students of the school who have passed the third year's course in the Engraving Department, or those who have passed the Government Technical Examinations in Engraving Higher or Lower grade, or those who have previous knowledge of engraving. Fees free.

Ceramic Course—3 years' course—Qualification for admission—S S L C standard. Fees free.

**Manufacture of Tobacco, Snuff, Zarda, etc., Read, INDIAN TOBACCO & ITS PREPARATIONS. Re 1/12. Industry Book Dept., Calcutta.**

Lacquerwork Section Course—Two years Stipend at the rate of Rs 5 for the first year and at Rs 7 for the second year Modelling in clay, cement and plaster are also taught here

**SIR J. J. SCHOOL OF ART, BOMBAY.**

The course of study in the Elementary Drawing School is of 2 years The advanced Schools of Drawing and Painting, Design, Modelling and Architecture (5 years' course) provide instruction to students desirous of following the professions of Painter, Designer, Modeller or Architect The Normal School for Drawing Teachers is intended for students who propose to become Drawing Teachers in Government and Aided Schools The Reay Art Workshops teach the following artistic crafts, metal work, wood work, stone-carving, house painting and decorating The workshops are intended for the instruction of the sons of artistic craftsmen The Commercial Art Section gives training in all branches of Commercial work to train students for the various Commercial Art Studies

Applications must be made not later than 31st March

Students seeking admission to the School in Architecture (six years' course) must have passed (1) the University of Bombay Matriculation Examination or its equivalent and (2) the Intermediate Grade Drawing Examination of a similar standard

The session commences in June Fees —Elementary School Rs 20 to Rs 24 per annum. Advanced School Rs 20, 24, 32, 40, 50 respectively in 5 years Architecture, Rs 60, 80, 100, 120, 140, 300 in 6 years Students outside the Bombay Presidency are charged double fees Commercial Art Classes Rs 30—40—50

**SOUTH INDIAN SCHOOL OF ARTS,**

Palace Road, Attungal, Travancore.

The School offers correspondence course of instruction in Drawing and Painting to any one above the age of seven on oriental and western model All sorts of drawings and paintings for various subjects in Engineering, Manufacturing and Industrial lines are taught Coaches up pupils for the Madras Government Technical Examination in Drawing and Painting Instructions are given in English language

Fees Elementary Course in Drawing and Painting Rs 15 to be paid in full or in 5 instalments

**SUPPLEMENTARY LIST.**

Mysore Government Arts and Crafts Institute, 4, South Parade, Bangalore

School of Art, Jaipur

**COMMERCIAL INSTITUTIONS.**

**ALEXANDRA COLLEGE OF COMMERCE.**

Prospect Chambers, Opp. Petit Library, Hornby Road, Bombay

The College provides oral or postal education for the following Professional English and Indian Diploma Examinations to enable young ambitious to hold lucrative positions in business and profession

Victorian Society of Public Accountants, Institute of Bankers (English and Indian), International Corporation of Secretaries Corporation of Certified Secretaries, London Chambers of Commerce, Institute of Commerce, Indian Merchants Chamber, Pitman's Short-hand High Speed and Teachers Diplomas, Expert individual training

**USEFUL PHRASES** A helpful companion to all As. 5.  
INDUSTRY BOOK DEPT., Shambazar, Calcutta.

is provided by the best qualified staff holding degrees and diplomas; and shorthand classes are conducted by professional shorthand writers.

**ALL INDIA RAILWAY TRAINING, MEDICAL & ART COLLEGE,**  
210, Victoria Park, Benares City.

Subjects taught Telegraphy, Type-writing, Shorthand and Railway traffic (all Railway works or Station-mastership), etc., etc

Fees —Admission into College Re. 1. Tuition Fee per subject varies from Rs 3 to Rs 25 per mensem, e.g., Telegraphy Rs 4. Type-writing Rs 2, Shorthand Rs 3, Drawing Rs 9, Electrical Engineering, Rs 25, Bath Treatment Rs 20, Ayurvedic Rs 10. Concession fee to students taking up more than any two subjects

Period —Fixed or less according to intellect of the candidate A candidate finishing his course in less than the fixed period can get a certificate on completing full course and on passing the examination.

Lodging —Lodging, with Charpai, Water and Electric Light, on Rs 2-8 per month Messing charges in Hostel Rs 7 per month

**AMERICAN CORRESPONDENCE COLLEGE,**  
Sehgunj, Kothishora, Subzimandi, Delhi

The College undertakes to coach by postal tuition for the following examinations —London Chamber of Commerce (London), Indian Union of Teachers (Karachi), Faculty of Secretaries (London), Institute of Commerce (Birmingham), Faculty of Teachers in Commerce (London), Association of Book-keeping Teachers (London), Institute of Book-keepers (London), Pitman's Commercial Examinations (London), Corporation of Certified Secretaries (Eng), Registered Accountants Examinations of the Govt. of India, Corporation of Accountants (Eng), Institute of Bankers (India & England), Society of Commerce (Delhi)

The postal courses cover the following subjects —Book-keeping and Accountancy, Shorthand (Pitman's Gregg, Sloan, Duployan, and Clark's), Typewriting, Commercial Arithmetic, Handwriting, Life, Fire and Marine Insurance Commercial and Company Law, Auditing Secretarial Practice, etc., etc

Diplomas and certificates are awarded to successful candidates The College also prepares for the D Com (SC) and all professional examinations of accountancy

**BATLIBOY'S ACCOUNTANCY CLASSES,**  
1-B, Old Post Office Street, Calcutta.

Specialised individual tuition for the leading English and Indian Examinations in Book-keeping and Accountancy Recognised by the Government of India, under the Auditors Certificates Rules 1932 3 lessons a week according to the choice and convenience of the student Either, Morning 8-30 a.m. to 9-30 a.m. or Evening 6-0 p.m. to 7-0 p.m. A complete course will take 9 months to a year though shorter courses may be arranged to suit individual needs Special facilities are given to groups of students sent by Mercantile Offices, Fees. Ordinary Course Rs 12 per month (payable in advance) Special Fees may be quoted for Special Courses Correspondence Course Rs 25 per month, plus postage etc Text and Accountant Books Initial Cost Rs 7

**CORONATION COMMERCIAL COLLEGE,**  
Bunder Road, Karachi.

Subjects taught include Book-keeping and Accountancy, Higher Accountancy, Auditing, Mercantile Law, Banking and Currency, Business Methods, Theory and Practice of Commerce, Commercial History,

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**INDUSTRY BOOK DEPT.,** Shambazar, Calcutta.



Commercial Geography, Commercial Arithmetic, General English and Commercial Correspondence, Shorthand, Typewriting, Office Management, Economics and Taxation and also the Degree Courses.

Admission to the College is open to those having a fair knowledge of English

Other Degree Classes are conducted according to two terms 20th June to 10th October, 10th November to 10th March

Higher Courses Rs 50 per term, other courses and single subjects, average Rs 6 per month per head per subject Messing charges approximate Rs 30 to Rs 35 per month

The college is the local centre for examinations of The Indian Union of Teachers The Institute of Book-keepers, London The London Association of Accountants, London The Corporation of Accountants, Glasgow; The Faculty of Teachers in Commerce, Birmingham; The Phonetic Institute, Bath

### **DAVAR'S COLLEGE OF COMMERCE, LAW, ECONOMICS AND BANKING,**

**51, Esplanade Road, Fort, Bombay.**

This College is the oldest college of commerce in India, being established in the year 1900 It is recognised by the Director of Public Instruction, and is affiliated with All-India Accountancy Board for Company Auditors' Examinations There are Specialised Courses in Banking for Diplomas for the English Institute of Bankers (C A I B), the Indian Institute of Bankers (C I I B), the Company Auditors (R A), Diploma of the Corporation of Certified Secretaries of London (F C C S), the Chartered Insurance Institute of London (A C I I, F C I I) and Incorporated Sales Managers' Association of England (A I S M A), Association of International Accountants of England (A A I A), National Association for Salesmanship of London Lectures are also given on Gregg Shorthand as well as for Senior Commerce subjects for Diploma and Certificate Examinations, of the London Chamber of Commerce held under the auspices of the Government Education Department and those of the Indian Merchants Chamber, D Com (I M C) Lectures have also been recently started for Diploma Examinations of the Institute of Private Secretaries (London) (F Inst P S) both for Secretaries to Private Companies or Private Secretaries to businessmen or political men and women

Courses of study —(1) Book-keeping and Accountancy, 1 year's course, Fees Rs 100, (2) General Commerce course one year (London, CC & D Com, IMC including No. 1 Course), Fees Rs 200, (3) Registered Accountants, First Examination, Course (including Nos 1 and 2 Courses), one year's course, Fees Rs 225, (3A) Specialised Salesmanship N A S Examination, one year's course, Fees Rs 250. (4) Specialised Banking course (CAIB) (Cert A I I B), two years, Fees Rs 350, (5) Specialised Company Secretarial Course, (FCCS), two years, Fees Rs 350, (6) Secretarial, Accountancy and Commerce Combination, Fees Rs 400, two years' course; (7) International Accountants Course (A A I A), two years' course, Fees Rs 350, (8) Registered Private Secretaries Course, two years' course, Fee Rs 350, (9) Specialised Insurance Experts Course, Associateship Examination (A C I I), three years' course, Fees Rs 350, (10) Specialised Insurance Experts Course Fellowship Examination (F C I I), 2 years after Associateship Examination, in all five years Fees Rs 500, (11) Incorporated Sales Management Course (A I S M A), two years course, Fees Rs 350 and (12) Gregg Shorthand Course Theory and Speed

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INDUSTRY BOOK DEPT., Shambazar, Calcutta.**

Combined, four months course, Fees Rs 30 Fees are allowed a rebate of 10 per cent., if received full in advance. There are also arrangements for Postal Tuition

Postal Tuition —A Special Department for coaching up-country students from India, Burma, Ceylon, Mesopotamia, etc., through post is also being worked for a number of years with great success side by side with personal teaching

**GEORGE PHONETIC SCHOOL,**

Lala Lajpat Rai Road, Benares City.

Subjects taught —Shorthand, Typewriting, Book-keeping, Accountancy, Telegraphy, Traffic, etc., Affiliated by the London Educational Board, and by the leading Railways of India, etc Minimum qualification for admission—Age limit upto 24 years Minimum expenses Rs 15 a month

**GEORGE TELEGRAPH TRAINING INSTITUTE (Main).**

136, Bow Bazar Street, Calcutta.

Offers training in the following subjects

Technical & Railway Subjects —Wireless Telegraphy—13 months Contract Rs 345, and Radio Servicing and Engineering, 15 months—Monthly Rs 30, Contract Rs 375, Telegraphy (Postal Standard) 12 months—Monthly Rs 10, Contract Rs 95, Telegraphy (Railway Standard) 9 months—Monthly Rs 8, Contract Rs 65, Railway Traffic (a) Coaching, Goods, Trains passing, Guards and Ticket Collectors' duties. (Theoretical) 9 months—Monthly Rs 5, Contract Rs 40; Railway Traffic (b) Trains passing (Practical) 2 months—Monthly Rs 10, Telegraph Training (Postal Standard) and Railway Traffic combined, 12 months—Monthly Rs 14, Contract Rs 120, Telegraph Training (Railway Standard) and Railway Traffic combined, 9 months—Monthly Rs 12, Contract Rs 95, Typist Signallers 3 months—Monthly Rs 6, Contract Rs 15 (only students who have passed in Typewriting and Telegraphy are eligible for admission to the Typist Signallers Course). All students pay Rs 3 as fan and game fee for the whole Session The admission fee for monthly students of the Railway Traffic course only is Rs 5 and for all other courses is Rs 8

Commercial Subjects —Shorthand (Pitman's System) 9 months—Monthly Rs 5 Contract Rs 40. Typewriting (Touch System), (a) Final Course, 6 months—Monthly Rs 3, Contract Rs 16, (b) Special Course 1 year—Monthly Rs 3, Contract Rs 30, Book-keeping (Junior) 4 months—Monthly Rs 5 Contract Rs 16; Book-keeping (Advanced) 12 months—Monthly Rs 8, Contract Rs 80, Accountancy, 18 months—Monthly Rs 10, Contract Rs 150, R.A. (First and Final) 1 year each—Monthly Rs 10 each, A C C A, A C W A, London Institute of Bankers, Indian Institute of Bankers, Railway Subordinate Accounts Service Establishment of Divisional Accountants, L C C, and Institute of Book-keepers, London, each. Monthly Rs 12; Auditing, Secretarial Practice, Precising and Drafting, Mercantile Law, Company Law Cost Accounts, Economics Income-Tax Law and Practice, General Commercial knowledge, Commercial Correspondence, Costing, Business Methods, Commercial Arithmetic, Commercial Geography, English Composition, Inland and Foreign Trade Currency and Foreign Exchange, Banking Law and Practice, Civics and Insurance, each Monthly Rs 10, Admission fee Re 1 for monthly students All students pay Rs 2 as fan fee for the whole session

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Sessions commence in July and January every year. The institute prepares students for B.A. (Sales), Examinations. Students who have passed the Matric or similar examination of any recognised University can apply for admission. The course of one year or of equal standard. Admission Fees Rs 10/-, College fees Rs 5/- per month.

**SATYA NARAIN COMMERCIAL INSTITUTE,**  
Banska Phatak, Benares City.

Subjects taught Shorthand, typewriting (Hindi and English), Commercial Correspondence, etc.

**SOCIETY OF COMMERCE,**  
Sohangunj Street, Subzmandi, Delhi.

The Society has been conducting examinations in various commercial subjects. The examinations conducted are divided into two classes: 1. Group Diploma and 2. Certificate examinations. Group Commercial Diplomas of D Com. will be awarded to candidates who pass in at least four senior grade subjects of a group either at one examination or at different examinations.

Junior, Intermediate and Senior Certificates will be awarded to candidates who pass in any of the single subjects. The examinations are held in April and November each year. Examination centres throughout India, Burma & Ceylon.

**SYDENHAM COLLEGE OF COMMERCE AND ECONOMICS,**  
BOMBAY.

The College is affiliated to the University of Bombay, and provides a systematic course of study leading to the degree of Bachelor of Commerce. The College offers—(a) An obligatory general course in Economic Theory, Industrial History, Commercial Geography, Foreign Trade, National Administration, Public Finance, Statistics, Mercantile Law, and Business Organization, (b) Optional courses in special subjects, e.g., Banking, Accounting, Actuarial Science, the Organization of the Cotton Trade, etc.

The University Examinations for the degree of B. Com. are—(a) The Intermediate Examination in Commerce, for which a student can appear after two years' course at the College, (b) The Bachelor of Commerce Examination (B. Com.), for which a student can appear two years after passing the Intermediate Commerce.

Admission to the degree courses is accorded only at the commencement of the first term in June. Candidates for admission should apply by letter stating their full University qualifications. The applications should be sent so as to reach this office by 3rd. June.

Applicants except graduates, must pass an entrance test. This test is held a few days before June 15th.

A fee of Rs 100 per term is charged to students, who take the full University degree course, and must be paid in advance at the commencement of each term. The rate of fees payable by students from Indian States and other provinces is Rs 125 per term. Messing charges Rs 25 & Rs 30 per month.

**SUPPLEMENTARY LIST.**

- Accountancy Classes, 3-1, Bankshall St., Calcutta
- Batlibor's Accountancy Training Institute, Yusuf Bldg, Church Gate Street, Fort, Bombay
- Bengal S. D. Shorthand Institute, 150, Lower Circular Road, Calcutta.
- Bihar Commercial College, Mithapore, Patna
- Central School of Commerce, 18, Kamtchi Joster St., Kumbakonam

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As. 5. Industry Book Dept., Shambazar, Calcutta.

Commercial Academy, 72-A, Ashutosh Mookherjee Road, Calcutta.  
Govt. Institute of Commerce & Accountancy, Bangalore  
Government School of Commerce, Calcutt.  
India School of Accountancy, Post Box 2020, Calcutta  
Indian Commercial College Chawh, Kutchary Bazar, Sagodha  
Kalbadevi Shorthand & Typewriting Institute, Kalbadevi Road,  
Bombay.  
Leutin's Commercial College, 33, Medows St., Fort, Bombay.  
Madras College of Commerce, Oriental Assurance Bldg., Armenian  
Street, Madras  
Master's College of Commerce, 3-1, Bankshall St., Calcutta.  
Metropolitan School of Commerce, Trichinopoly  
Padhye's Shorthand & Typewriting Institute, Thakurdwar,  
Bombay No 2  
Royal Telegraph School, Ballhraman, Delhi  
Shorthand Typewriting School, Jonesganj, Jubbulpore, C P

## ENGINEERING SCHOOLS & COLLEGES.

### ACADEMY OF ENGINEERING,

Andar Street, Teppa Kulam P.O., Trichinopoly.

The Academy conducts classes in Civil and Mechanical Engineering solely for external students and fits persons for offices as Draftsmen, Surveyors, Mechanics, etc

The tuition consists of instruction sheets, akin to oral lectures, mailed regularly besides tuition for a fortnight per term at the Academy

Each course covers a period of two years and the fee per course is Rupees one hundred and fifty or six instalments of Rs 27-8 each payable before the first mail day of each term

The supplementary tuition fee is Rupees ten per term Examination fee is Rupee one and annas eight per term Diploma examination (subsequent appearance) Rupees Five only

Admission is open at the beginning of every term to holders of S. S. L. C. or equivalent irrespective of optionals Applications for admission shall be submitted by letter a week in advance of the term, specifying the course chosen

### AHSANULLA SCHOOL OF ENGINEERING, DACCA.

Diploma Course in Civil Engineering—The full course is one of 5 years—the first two years is termed Sub-overseer course, the next two years Overseer course and the 5th year is for practical training The minimum admission qualification is a pass in English and Mathematics in the Matriculation Examination but candidates passing in Mathematics are also admitted provided their marks are satisfactory Age limit for admission to the Sub-overseer class is 19 years and that for Overseer class in the case of passed Sub-overseers from minor institutions is 21 years Applications to be sent not later than the 21st June every year The session commences early in July The monthly fee is Rs 6 in the Sub-overseer class and Rs 7 for the Overseer class No fee is charged during the practical training period. Admission fee equal to one month's fee Messing and establishment charges do not exceed Rs 12 per month

Artisan Department —The course in the Artisan department is one of three years The crafts or trades in which artisans are trained

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are (1) Carpentry, (2) Blacksmithy, (3) Fitting, (4) Turning, (5) Moulding, (6) Motor-mechanism and (7) Electroplating and Spray-painting. No previous school training is laid down for admission but preference is given to boys who can read and write simple Bengali and also know a little of the multiplication table. Boys under 12 years are not admitted. Admission takes place at any time of the year except during the vacation. No fees, but a caution money of Rs 5 is to be deposited at the time of admission.

### **BENARES HINDU UNIVERSITY, ENGINEERING COLLEGE, BENARES.**

#### **Degree Course in Mechanical & Electrical Engineering**

Minimum qualifications for admission—Intermediate Examination with Mathematics, Physics and Chemistry. Candidates with third class qualifications are not admitted as the standard is high. The course of Study is for 5 years, the fifth year being entirely devoted to Practical Training which is carried out at some establishment outside the University.

All applications for admission must be made on the prescribed form of the College and must be submitted not later than 31st March, not preceding 1st January.

The price of a copy of prospectus is Rs 2-8 and that of an application form is annas eight only.

The session starts on the 1st Monday of July.

The whole College fees and hostel fees are realized in seven approximately equal instalments from third year students becoming due on the 1st July, 1st August, 1st September, 1st October, 1st November, 1st December & 1st January, and from First, Second and Fourth Year Students in eight equal instalments becoming due on the 1st July, 1st August, 1st September, 1st October, 1st November, 1st December, 1st January and 1st February.

The total monthly expenses amount to from Rs 55 to Rs 60 per month.

The tuition fee of 1st and 2nd year for the Session is Rs 180 and the tuition fee for Third Year and fourth year will be Rs 200 per session.

No candidate over 21 years of age can be admitted except under special circumstances (B Sc students if they are slightly over-age, may be considered).

Diploma Course—This course has been discontinued until further notice.

Apprentice Course—The Course is for five years. Boys under 16 are not admitted. Previous school training although an advantage is not compulsory. A boy coming is admitted for training in one "trade" only.

The students of this Course have to make their own arrangement for board and lodging. The working hours are from 9 A M to 12-30 P M, and again from 11-30 P M to 5-30 P M during all seasons (NIST).

#### **Department of Mining & Metallurgy, Benares Hindu University.**

The University offers four-year courses, one leading to the degree of B Sc in Mining and another four-year course leading to the degree of B Sc in Metallurgy to students who have passed the Intermediate Examination, with Mathematics, Physics and Chemistry of an Indian University or Board.

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The tuition fees for the First and Second year courses are Rs 22-8 per month, and those for the Third and Fourth year courses Rs 25 per month, payable for only 8 months in the year.

Hostel accommodation is generally available at Rs 4-8 per month.

Messing expenses ordinarily amount to Rs 20 to Rs 30 per month.

Five per cent of the students are granted free studentships.

Applications for admission made on the prescribed form available from the Benares Hindu University, Book Depot on payment of As 8 should reach Dr D Swarup, Ph.D. (Sheffield), A.I.C., M.I.M., M.I. & S.I. M.M.G.I., Head of Department of Mining & Metallurgy, Benares Hindu University before the 10th June, 1943 and a fee of Rs 2 remitted to the Pro Vice-Chancellor, Benares Hindu University giving reference of the application made to Dr Swarup.

The courses begin on the 8th July.

The Department is working in close association with the Engineering College of the University, where training in Mechanical and Electrical Engineering subjects is given to the Mining and Metallurgy students throughout the course.

The B.Sc. degree in Mining of Benares Hindu University has been recognised by the Government of India for the purposes of Regulations, 34, 35 and 39 of the Indian Coal Mines Regulations, 1926. In virtue of this recognition Mining Graduates of the University are entitled to two years' exemption from practical under-ground training required of candidates appearing at the Govt. First Class Colliery Managership Examination, one year's exemption at the Second Class Managership Examination, and two years' exemption at the Studentship Examination.

### BENGAL ENGINEERING COLLEGE.

P.O. Botanic Garden, Howrah.

Regular students reading for a degree in Engineering should have passed the I.Sc. or I.A. in Mathematics or Chemistry, preference being given to candidates who have qualified both in Physics and Chemistry.

Regular students reading for the Diploma or Association Certificates in Mechanical and Electrical Engineering or for the College Certificate in Engineering should have the above qualifications or have passed the Cambridge Senior Examination (School Certificate) with Advanced Mathematics and Physics or Chemistry (if possible, both should be taken) or have obtained a first division pass at the School Final Examination (Science side).

B.Sc.'s are eligible for direct admission to the 2nd year class as regular students if they have taken Physics, Chemistry and Mathematics, or Mathematics, Physics and Geology, or Mathematics, Chemistry and Geology in their final examination.

Occasional students who can convince the Principal that they are to be educated for employment in any firm of known standing may be admitted at his discretion.

Each application for admission must be accompanied by the registration fee of Rs 4 which will, in no case, be returned. It must be made on the prescribed form and posted so as to reach the Principal's Office by 1st June.

All candidates both I.Sc.'s and B.Sc.'s for direct admission must appear at an Entrance Examination in Drawing which will take place in the middle of June at the Bengal Engineering College and at Dacca; also at such centres in Assam as the Director of Public Instruction may fix or at any other Government College in Bengal, provided a mini-

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sum of Rs 32 has been deposited with the Principal of the Bengal Engineering College

Every applicant must before admission present himself before the Medical Officer resident at the College for examination as to his eyesight, physical strength, and fitness for manual labour

All students must be resident, students are charged a consolidated barrack charge of Rs 5-9 monthly to cover house-rent, hire of furniture, municipal rates and taxes and electric light This charge is ordinarily payable during eight months of the session

Messes are maintained for Hindus, Moslems and Anglo-Indians The mess charges are as follows —Anglo-Indian mess —Entrance fee Rs 5 payable annually, monthly cost of messing about Rs 40 ordinarily payable for 9½ months of the session Hindu mess —Entrance fee (recurring yearly as above) Rs 5, monthly cost of messing about Rs 14, ordinarily payable for 9½ months of the session. Moslem mess — Entrance fee, payable annually Rs 5 Monthly cost of messing about Rs 18 per month, payable for 9½ months ordinarily for each year

Admission fee, Rs. 10, caution money deposit, Rs 50, both payable on first admission.

Tuition-fees, payable in eight equal monthly instalments from November to April and July and August, vary according to class and course.

Degree Course —The Course of Instruction include four years' instruction in the College, except the Metallurgy Course which extends over three years University students passing this examination are eligible to be admitted to one of the B. E. Degrees or the B. Met Degree To be awarded the College certificate in Civil Engineering, Mechanical Engineering, Electrical Engineering, and Metallurgy, it is necessary for the student to complete one/two/two/one years of practical training to the satisfaction of the Principal after graduation

No candidate over 21 years of age on the 1st January of the year in which he seeks admission will be admitted as a regular student

For occasional students there is no age-limit

Candidates over 19 will not generally be selected as regular students unless they have obtained the BSc Degree with Mathematics, Physics and Chemistry, or Mathematics, Physics and Geology, or Mathematics, Chemistry and Geology and qualify for admission to the second-year class

Tuition Fees—Intermediate classes—Rs. 160 per session in eight instalments of Rs 20 Graduate Classes, Rs 200 per session in eight instalments of Rs 25 Metallurgy—1st year Rs 160 2nd and 3rd year Rs 200 per session payable as above Occasional students pay 50 per cent extra in each class.

Associate Course —Students are also trained in the Mechanical and Electrical classes for the Diploma of the Board of Apprenticeship Training and for the Associateship of the Board in Mechanical Engineering

To qualify for admission to workshop apprenticeship students should pass the Apprenticeship Admission Examination which is conducted twice yearly in January and May by the Secretary to the Board of Apprenticeship Training (address—Calcutta Technical School, 110, Surendra Nath Banerji Road, Calcutta) After passing this examination the student should apply for apprenticeship to one or other of the recognised workshops

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A limited number of students who have passed the I Sc or equivalent examination, and are not above 20 years of age on the 1st January of the year of admission, will be admitted direct to the first year of the classes. The session commences on the first Monday in November.

The full College course covers at present about six years (four at the College followed by two on practical training or three years at the College and three on practical training)

Tuition-fees are payable in eight equal monthly instalments. No instalments are payable during the vacation and the month in which the final examinations are held. For regular and special students the fee is Rs 100 and for occasional students Rs 200 per session.

#### **BENGAL SURVEY SCHOOL, BANKURA P.O.**

Full course two years. First year course corresponding to the Amin standard, begins from the 18th November. Second year or the Survey Final Course, begins not later than 2nd January 1943.

Applications for admission to the first year course and second year course must be made on or before the 30th November and 31st December, respectively.

The qualifications for admission to the first course are — Knowledge of elementary arithmetic and simple English and some vernacular. The qualifications for admission to the second year final course are — An Amin certificate granted by the Survey Education Advisory Board and a Matriculation certificate.

Age limit for the candidates for first and second year course is below 21 and 22 respectively.

Fees — First year students Rs 3, 2nd year students Rs 4, Special students Rs 5.

Survey Final passed students are eligible for appointments as District Kanungos.

#### **BENGAL SURVEY SCHOOL, P. O & Dt Bankura (Bengal).**

Applications for admission to the First-year Class accompanied by a Registration fee of Rs 3 are received by the Principal up to 30th November.

#### **BIHAR COLLEGE OF ENGINEERING, BANKIPORE, PATNA.**

Civil engineering course extends over four years and is followed by a year of practical training. The minimum qualification for admission is a pass at I Sc examination. Candidates aged 20 years or more are not ordinarily selected for admission.

Fees — Admission Fee Rs 8, Tuition Fee Rs 8 monthly, Hostel Fee Rs 4 monthly, Students' Club Subscription, Rs 5, (caution money) Rs 15.

The cost of books, etc amounts to Rs 100 approximately.

Civil Engineering Subordinate Department.—The educational qualifications for admission are a pass at the matriculation or school final examination or any examination accepted as their equivalent. Candidates must be under 20 years.

The course extends over three years and is followed by a year of practical training. Tuition fees (per mensem) Rs 3 for Domiciled Candidates and Rs 5 for Non-domiciled Candidates, (caution money) Rs 18.

The approximate cost of books, etc, amounts to about Rs 80.

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Industrial Diploma Department—The qualifications for admission is middle vernacular, the course extends over 5 years and the medium of instruction is Hindustani. Age limits are 15 to 19. No tuition fees. Small stipends to 16 Beharees who do best in Admission Examination.

### **CALCUTTA ENGINEERING COLLEGE,**

5, Swinhoe St., Ballygunge, Calcutta.

Officers training in —1 Mechanical & Electrical Engineering, 2. Civil Engineering (including Overseer Course), 3 Junior Electrician Course, 4 Mechanical Draughtsmanship, 5 Structural Draughtsmanship, 6 Radio Service Work.

The College is equipped with most up-to-date instruments, machinery and laboratories of all kinds.

Matrics are admitted into all Courses. Non-Matrics are admitted in Junior Electrician, Mechanical Draughtsmanship and Structural Draughtsmanship Courses. There is a Hostel attached to the College. Session begins in July.

The College is recognised by the Department of Industries, Government of Bengal, aided by Calcutta Corporation and selected as a "Civil" (Civil-Military) Training Centre by the Government of India for training War Technicians.

### **CIVIL ENGINEERING INSTITUTE, LUDHIANA, PUNJAB.**

Civil Engineering Class —FSc's & F.A.'s can be admitted to this class. Admission fee Rs 50. First instalment Fees Rs 200 and three instalments of Rs 250 each quarter. Course about two years.

Subordinate Engineering Class —Education up to Matric. Admission fee Rs 50, to be remitted with admission form. Rs 250 at the time of joining. Course about 15 months.

Special Overseer Class —Rs 400 in advance. Course about 10 months.

Lower Subordinate Class —Education up to Middle Standard. Admission fee Rs 50, to be remitted with admission form. Tuition fee of Rs 100 to be paid in advance on joining. Course about 15 months.

Special Suboverseer class Rs 200 in advance. Course about 10 months.

Surveyor & Draughtsman Classes —No special qualification. Admission fee Rs 5, Rs 70 on joining. Course about one year.

Outsiders also examined for different standard of qualification.

### **COLLEGE OF ENGINEERING, BANGALORE,**

The College trains students for the B. E. Degree Examination of the Mysore University and provides instruction in Civil, Mechanical and Electrical Engineering subjects. Immediately preceding the date of admission into the College. Candidates for admission must be preferably Mysoreans by birth or domicile and must have passed the Intermediate Examination (with Mathematics, Physics and Chemistry as Optionals).

Applications for admission should reach the Principal, complete in all respects, not later than 5th June nor earlier than the 15th May preceding. Applicants will have to remit an admission fee of Rs 10 with their application. This fee will be refunded if they are not selected for admission. The number of seats available at present is fifty. Selected candidates should appear before the Principal on a date to be fixed by him not later than the 27th June.

The tuition fee is Rs 150 per year for Mysoreans and Rs 250 per year for non-Mysoreans and is payable in four equal instalments, in June, September, November and January. Sports, Union, Admission

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and other fees amounting to Rs 21 per annum are payable on admission. Each student on admission is required to deposit Rs 10 against loss or damage to tools, apparatus and library books.

The course extends over four years followed by a year's practical training. The College course commences from 1st week of June and ends on the 31st March following.

Each student must provide himself with the necessary set of drawing instruments and text-books, prescribed. The cost of these for the whole course will be about Rs 350.

A hostel is attached to the College which provides boarding and lodging for about 30 students and the expenses amount to about Rs 21 per student per month.

#### **COLLEGE OF ENGINEERING, GUINDY, MADRAS.**

Courses of study — B E degree in Civil Engineering, Mechanical Engineering and Electrical Engineering. Candidates must have passed I.A. Examination in the group of Mathematics, Physics and Chemistry. There is also a diploma course Licentiate in Civil Engineering class. Candidates must have passed S S L C or Matriculation Examination.

Fees Engineer's Rs 180 per year, L C E class Rs 60 per year. Books and Instruments for whole course, Rs 100 to Rs 120, Camps and tours Rs 75, Room rent etc, per year Rs 25, Boarding charges Rs 30 per month.

#### **COLLEGE OF ENGINEERING,**

**Sangam, R. S. Shivajinagar, Poona.**

The College of Engineering, Poona is a Government Institution and is affiliated to the University of Bombay and conducts courses for the Degrees of Bachelor of Engineering (Civil, Mechanical and Electrical).

It is the only College in India that is recognised by the Institute of Civil Engineers (London) for purposes of exemption from parts A and B of the Associate Membership Examination of the Institution.

It has courses leading to the Diploma in Civil Engineering and the Diploma in Mechanical and Electrical Engineering awarded by the Government of Bombay.

If a graduate in Mechanical Engineering desires to take the B E (Elec) Degree also, he is required to put in a further period of one year.

The College has residential accommodation for 82 students of the Degree classes and for 48 students of the Diploma classes. Rooms are also available in several private bungalows in the close vicinity of the College.

The College has extensive playing fields adjoining the Hostels and a Boat Club run by the students.

Candidates for the degree of Bachelor of Engineering must have passed (1) I Sc in the group of Mathematics, Physics & Chemistry (2) B Sc in Physics and Mathematics or Physics and Chemistry only or (3) Inter Arts with Mathematics as optional subjects and the B.A. Examination with Physics and Chemistry as the optional subjects of the Bombay University or of a University recognised by the University of Bombay. Applications must be made before 15th May. The students should not be more than 22 years. Each student must pay in advance a half yearly fee of Rs 150 and if he is a native of an Indian state Rs 200. Approximate expenses including fees, books, etc., will be above Rs 800 during the eight months of residence in the College each year.

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INDUSTRY BOOK DEPT., Shambazar, Calcutta.

Diploma classes—Civil and combined Mechanical and Electrical Engineering courses which extend over a period of three years for the former and 4 years for the latter.

The Workshops consist of all the Departments of a Mechanical and Elec Works i.e Machine tool room, carpenter's section, filter's section, blacksmith's shop, tinsmith's shop, foundry, engine and boiler rooms. Both oil and steam power plants are installed

Fees Rs 50 (or Rs 75 for students from outside the Bombay Presidency) and Indian States for each half year of the course. The cost of books etc, for the 2nd years of the course will be about Rs. 60 per annum subsequently

**COLLEGE OF ENGINEERING & TECHNOLOGY, BENGAL,**  
Jadavpur, Jadavpur College P.O., 24-Pargas.

The Session lasts from 1st of July to 30th of June. Applications for admission must be accompanied by a registration fee of Re 1/- and are entertained from the middle of June

Prospectus is supplied on application with Eight one-anna postage stamps

Following are the Courses of Study in the College —

(1) Mechanical Engineering Course, (2) Electrical Engineering Course, (3) Chemical Engineering Course—Training in the aforesaid courses extends over a period of four years and successful students at the final Examination are awarded diplomas by the Council. Students who have passed the I Sc Examination of any recognised University with Physics, Chemistry and Mathematics or the Preparatory Engineering Examination of the National Council of Education are eligible for admission to these courses

Students who have passed the B Sc Examination (with Physics, Chemistry and Mathematics) are admitted into the Second year class of the Chemical Engineering Course but by the end of the academic year such students will have to satisfactorily finish the class work in Drawing prescribed for the Engineering First year class and must pass the examinations in Drawing prescribed for this class

(4) Junior Technical Course (3 years' course)—The minimum qualification for admission is that the candidate has passed or appeared in the Matriculation Examination

(5) Survey, Draftsmanship and Agricultural Courses (Two years' course)—The minimum qualification for admission for any student is that he has prosecuted a regular course of study up to the Matriculation Standard.

Admission fee. Admission fee is equal to one month's tuition fee and is payable at the time of admission

Tuition fees (i) For Engineering Courses the tuition fee for each complete session is Rs 120/- and is payable in monthly instalments of Rs 10/-

(ii) For Junior Technical Course the tuition fee is Rs 96/- for each complete session and is payable in monthly instalments of Rs 8/-

(iii) For Survey & Draftsmanship Course the tuition fee is Rs 84/- for each complete session and is payable in monthly instalments of Rs 7/-

Other fees, Magazine fee Re 1/- Contingency fee Rs 2/-. Students' Union fee Re 1, and Sporting fee Rs 4; per annum have to be paid each session in the month of January with the tuition fee for the month. Besides these fees have to be paid at the time of admission

Every First year student must be prepared to provide himself with a set of Drawing instruments and other requisites which will cost approximately Rs 30/- to Rs 40/-

**THE RETAIL TRADE**—an exposition of Methods that build up Retail Trade. Price Re. 1/4. Industry Book Dept., Shambazar, Calcutta.

Two Hostels at Jadavpur are according to the present arrangements reserved for Hindu students of the College or Engineering & Technology.

Caution money of the amount of Rs 20/- is payable in advance with every application for admission. Admission fee of Rs 2/- for a complete term shall be paid by every student on admission into the Hostel. Each boarder shall have to pay the following scale of rent including charges for light and medical attendance by the 10th of every month: Ground floor, Rs 60 per annum, First floor, Rs 78 per annum, be paid in 10 equal monthly instalments beginning from the month of July in every session.

### ENGINEERING COLLEGE, OSMANIA UNIVERSITY.

Hyderabad—Deccan.

The course of instruction for the B E Degree students extends over 4 years, of which 3 years are spent in the College and 4th year in Practical Training. University Examinations are held at the end of each of the first three years known as B E I, II, and Final Examinations respectively. There will also be a University Examination at the end of the fourth year's Practical Training.

The College years consist of —(1) a first term extending from about 21st June to 18th September (b) a second term extending from about 21st September to 16th December (c) a third term extending from about 6th January to 31st March.

Minimum attendance is 70 per cent of the lectures in each subject and also in the practical classes.

A candidate shall be deemed to have passed the B E Examinations if he obtains a minimum of 33 per cent in each of the written papers and also in the practical examinations and 50 per cent of the aggregate marks. Those who obtain 70 per cent or more of the aggregate marks shall be placed in the First Class and those obtaining between this and 50 per cent in the Second Class.

Candidates seeking admission must have passed the Intermediate Examination of the Osmania University or of a recognised University in the Second Class with the following as optional subjects —

- 1 Mathematics
- 2 Physics
- 3 Chemistry

They will be admitted at the discretion of the Principal after a Competitive Examination.

The tuition fee payable in advance by students while at the College is Rs 100/- for the session or Rs 12/- in nine monthly instalments.

The Overseer Class of the College affords theoretical and practical instruction in the subjects qualifying for the subordinate service of the Public Works Department, Local Boards, Municipalities and Railways.

Candidates who have passed the Matriculation Examination of the Osmania University or the H S L C Examination in the Second Class or its equivalent are eligible for admission. They will be admitted at the discretion of the Principal after a Competitive Examination.

The tuition fee payable in advance is Rs 46/- for the session or Rs 5-8 in nine monthly instalments.

The course extends over 2 years.

The medium of instruction and examination in the College is Urdu.

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**THE RETAIL TRADE**—an exposition of Methods that build up Retail Trade. Price Re. 1/4. Industry Book Dept., Shambazar, Calcutta.

The Prospectus giving full details may be obtained for payment of Re 1/- from the Office of the Principal, Engineering College, Osmania University, Hyderabad-Deccan

**GOVERNMENT ENGINEERING SCHOOL,  
Kamptee Road, Nagpur.**

This Institution trains students for examinations for diplomas in Civil, Mechanical and Automobile Engineering of Nagpur University

Candidates for admission to any of the above courses must be between the ages of 16 and 21 years on the first day of admission. In exceptional circumstances, the Principal may admit candidates who are over 21 and under 30 years of age, they, however, are not eligible for scholarships or guaranteed appointments. The candidates must have passed the High School Certificate Examination of the Board of High School Education, Central Provinces and Berar or an examination recognised in accordance with the provision of section 33 of the Nagpur University Act as equivalent thereto.

The duration of the courses is 3 years. The tuition and hostel fees are Rs 54 and Rs 27, per session, respectively.

Qualified students from the School are eligible for appointments in the Subordinate Engineering Service of the C P Public Works Departments, and as Subordinate Engineers in the Railways, Municipalities, District Boards, Engineering Workshops and Factories.

**GOVERNMENT SCHOOL OF ENGINEERING, PUNJAB, RASUL.**

Courses for Overseers for S E S and Draftsmen commence during the first week of October annually. The duration of the Course for Overseers and Draftsmen is two years.

A 3rd Year Reinforced Concrete Course for a further period of 4½ months commences from October annually.

Tuition fee—First 2 years Rs 100, per year, 3rd Year Reinforced Concrete Class Rs 50, Hostel fee for first 2 years Rs 14, per year—3rd Year R C C Rs 7.

All candidates for admission into the Overseer and Draftsman Classes must have passed the Matriculation Examination of the Punjab University or its equivalent and be between 17 and 21 years of age.

There is a Special Course in Reinforced Concrete Construction and Design for P W D Overseers and Draftsmen.

Classes are also held for Artisan and Bricklayers.

**HEWETT ENGINEERING SCHOOL.  
Jagat Narain Road, Lucknow, (U. P.)**

The object of the School is to train candidates as Overseers for the P W D, Railways, Irrigation, M E S, District Boards, Municipalities and State's Engineering Services. Course is of two years' duration. Only those candidates are eligible for admission who have passed the High School Examination, approved by the U P Govt. Syllabus comprises the following subjects—(a) Building Construction, Roads, Railways, Bridges, Irrigation, Sanitary Engineering, Field Engineering and Carpentry (b) Mathematics and Applied Mechanics (c) Surveying (d) Drawing, based on Civil Engineering and Building Construction (e) Mechanical and Electrical Engineering (f) General Science, Accounts, Process Work (g) Project and Civil Engineering Design. The Final Examination is held by the Director of the Public Instruction, U P at the end of the two years' Course. The Overseer Certificate is granted by the Department of Public Instruction, U P. The certificate is recognised by the Governments of U P, C P, Assam, Baluchistan, N W F. Prov., the Military Engineer-

Full particulars about making and recharging batteries are available in **MANUFACTURE OF BATTERIES**, Re. 1/12. Industry Book Dept., Cal.

ing Services, and 65 Prominent Indian States Tuition fee (including supply of Books), Rs 550 for two years, Instruments, Examinations fee etc Rs 100, Board & Lodging expenses Rs 25 per month There is a School Hostel with accommodation for 200 candidates

The Session commences from July every year, but enrolments are made from January till 31st July or earlier if the required number is reached

Admission is open to all candidates, irrespective of age, caste or provincial restrictions

#### INDIAN SCHOOL OF MINES, DHANBAD

Admission is competitive, there being an Entrance Examination held early in July each year Provided a sufficient number of candidates come forward the Entrance Examination is held at various centres throughout India Application for admission must be made early in June but preferably in May on the appropriate forms obtainable from the Principal Permission to sit for the Entrance Examination is granted only to candidates possessing certain educational qualifications, for example, ISc or IA of an Indian University The subjects taken in the Intermediate Examination must have included English, Mathematics and either Physics or Chemistry Certain equivalent examinations are recognized (Vide Prospectus) No candidate is admitted if he is over 22 years of age on the 1st of January of the year of admission The following courses of study are provided—(a) Three years course leading to Certificate in Coal Mining, (b) Three years course leading to Certificate in Geology, (c) Four years course leading to Diploma of Associateship in Mining Engineering, (d) Four years course leading to Diploma of Associateship in Geology

The Diploma of Associateship entitles the possessor to indicate it by the letters "A I S M" Students are normally required to reside in the Hostel Students arrange their own messes under the guidance of the Hostel Superintendent

Fees, etc.	Rs As
Entrance Examination Fee	10 0
Admission Fee	10 0
Caution Money deposit (The balance of this is returnable to Students)	50 0
Tuition Fees—	
First year—(in 2 equal instalments)	120 0
Second year	120 0
Third year	180 0
Fourth year equal	180 0
Monthly Charges excluding mess charges—	
Consolidated Hostel charges (at present)	8 4
Examination Fee for the Certificate at the end of the Third Year	25 0
Examination Fee for the Diploma at the end of the Fourth Year	40 0

The session begins on the 1st of November each year and lasts until 31st July in the following year with short breaks at Christmas and at Easter During the long vacation each student is required to obtain practical experience for at least two months in a mine or (if taking the Geology Course) in the field

#### Scholarships.

The Government of India and Provincial Governments award scholarships of values varying from Rs 30, per month to Rs 75, per month In most instances these are awarded on the results of the Entrance Examination

Full particulars about making and recharging batteries are available in MANUFACTURE OF BATTERIES. Re. 1/12. Industry Book Dept, Gal.

Students who obtain the Certificate in Coal Mining or Diploma of Associateship in Mining Engineering obtain concessions in respect of the period of practical experience in a coal mine required from candidates for the Department of Mines Examinations. The period of practical experience required is reduced by one year in the case of candidates for the Second class Mine Manager's Certificate and by two years in the case of candidates for the Sirdar's Certificates and candidates for the First Class Mine Manager's Certificate. A similar reduction of 18 months is granted to students possessing the Certificate in Mining or the Diploma in Mining Engineering in respect of the Examination for the Certificate of Competency as Mine Surveyors.

The Diploma of Associateship in Mining Engineering entitles the holder to a similar exemption, viz., of two years, in respect of the Examinations for First Class and Second Class Certificates of Competency under the British Coal Mines Act, 1911. Further, the School has been recognised by the University of London for the purpose of its B.Sc. Degree in Engineering (Mining).

#### **NADIRSHAW EDULJI DINSHAW ENGINEERING COLLEGE, KARACHI**

The College is affiliated to the Bombay University for the degree courses in Civil, Mechanical & Electrical Engineering. The course extends over three years, and every student has to pass (1) Inter Science in Group A (Mathematics, Physics and Chemistry) or (2) Inter Arts with Mathematics as optional subject and the B.A. Examination with Physics and Chemistry as the optional group of the University of Bombay or of any other University recognised by the Bombay University.

Tuition fees are Rs 125 per term for Sindhi students and Rs 165 per term for non-Sindhi students. At present, the College has no Hostel of its own, but there is a private Hostel in the vicinity of the College, where some of the students are accommodated.

The College also runs a three-year Diploma Course in Civil, and combined Mechanical & Electrical Engineering, the minimum qualification for admission being the Matriculation standard. Tuition Fees are Rs 60 for Sindhi students and Rs 80 per term for Non-Sindhi students.

A Class to train a few students in Wireless Operator's Course is attached to the College. Lectures are held in mornings and evenings. The qualification for admission is the same as the Diploma Courses. The duration of the course is 1½ years and the fees charged are—Admission Fee Rs 25 and Tuition Fee Rs 150.

The College is a centre for the City and Guilds of London Institute examinations.

#### **ORISSA SCHOOL OF ENGINEERING, CUTTACK.**

The courses of instruction consist of two branches: (1) Civil Engineering and (2) Mechanical and Electrical.

(1) The minimum qualification for the Civil Engineering Subordinate classes is a pass at the Matriculation Examination and the course consists of three years' duration at school and one year outside. The school fee Rs 3 per month.

(2) The Mechanical and Electrical section provides training in the workshops with the necessary theory. The minimum qualification for admission is the Vernacular Middle Examination. The course of instruction, which is free, extends over 5 years. All students get stipends ranging from Rs 5 per month in the first year to Rs 20 per month in the final year. The course is divided into three classes, viz., (1) Diploma Course for those who undergo the full 5 years' course in

Principles of construction of storage batteries and their care are dealt in Manufacture of BATTERIES. Re. 1/12, Industry Book Dept., Calcutta.

theory and pass the craftsmanship test, (2) the Chargehand course for those who complete the theory portion of the first three years and pass the draftsmanship test at the end of 5 years and (3) Journeyman course for those who complete the full 5 years' course in the workshop only and pass the craftsmanship test at the end of 5 years

### PROVINCIAL INSTITUTE OF ENGINEERING,

Hoshiarpur, (Punjab)

There are three courses of Instructions namely —

1 Engineering, (a) Electrical, (b) Mechanical, (c) Radio Engineering Complete courses of Instructions leading to the Final Examination of the City and Guilds of London Institute Period of training two academic years Admission fee Rs 15 Tuition fee Rs 10 p m Adequate arrangements for practical training in Electrical Installations, Armature winding, Battery charging, Repair of Machines Operation maintenance and testing of Electrical Machinery Part time apprenticeship in the Local Electric Supply Co and other mills and factories

2 Electrical Supervisor's Course —Syllabus as prescribed by the Electrical Licencing Board Punjab Govt Examinations held under the Presidentship of the Director of Industries to the Punjab Govt Complete up-to date training in theory and practice of Electrical Installation work together with the above syllabus of practical training for the Engineering courses Admission Fee Rs 10/- Tuition Fee Rs 8-8 Period of training one year

Electrician and Mechanics Course —This course is intended to prepare candidates taking up this Course for the Military Transport, Heavy repair Shop Tests for Electricians and Mechanics Period of Training Six Months Admission Fee Rs 10/- Tuition Fee Rs 5-8 P M

Hostel accommodation limited Hostel Fee with electric light Rs 2/-

The average cost of living Rs 20/- p m for an Engineering Student and comparatively less for the others

Poor and deserving candidates are admitted at full or half rate concession in fees particularly at the recommendations of the Heads of the Schools or Colleges last attended

Minimum standard of education for admission in the Engineering Courses is Matriculations for others lower standard of education is acceptable

### PUNJAB COLLEGE OF ENGINEERING AND TECHNOLOGY, LAHORE

The Punjab University (B Sc) Engineering Degree Course (Civil, Mechanical and Electrical Engineering) 30 vacancies each year Candidates must have at least passed the Intermediate examination with Mathematics, Chemistry and Physics and will be selected in order of merit Age limit between 16 and 21 Duration of course 3 years in College and 2 years on works Monthly expenses approximately Rs 70/-

The Engineering Certificate Course —40 Vacancies each year, 15 of which are reserved for the nominees of the N W Railway Candidates must have at least passed the Matriculation and School Leaving Certificate examination in 2nd division with Mathematics and Science and will be selected in order of merit Age limit 16—19 years Duration of course 5 years—approximately 20 per cent of this

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to be spent in College and the remainder in the N W Railway Central Workshops Monthly expenses approximately Rs 30/-

The Artisans Course —50 Vacancies each year Candidates must be literate with a fair knowledge of English and will be selected by an interviewing board Duration of course 3 years No fees are charged. Books and tools are supplied by the College Age limit 15-19 years

#### **PUNJAB ENGINEERING INSTITUTE, JULLUNDER TOWN.**

There are four courses (1) Electrical Engineering Course which prepares students for the examination of the City and Guilds Institute of London, the examination being held under the supervision of the Director of Industries, Punjab Government Candidates who are F.A. or F.Sc. or First division matriculates get preference in admission But those possessing inferior academical qualifications are admitted after a test in English and Mathematics by the Institute The diploma of Electrical Engineer is awarded after two years of training for the City and Guild of London Institute Admission Fee Rs 20 Tuition fees—First year Rs 8 p m and Second year Rs 10 p m Admissions in June

(2) Electrical Overseer's Course—Matriculation Certificate from any Indian University and a character certificate are necessary for admission to this course Candidates are admitted at the end of every month Period of training one year Admission fee—Rs 20, monthly tuition fee—Rs 8

(3) Electrician Course —Candidates with the minimum qualification of anglo-vernacular middle pass are admitted at the end of every month Period of training one year Admission fee Rs 15, tuition fee Rs 6 per month

(4) Electrical Mistri Course—Candidates having certificates of passing primary school examination are admitted Admission at the end of every month Period of training one year Admission fee Rs 10 Tuition fee Rs 4 per month

(5) Radio Electrician Course 6 months' course, tuition fee Rs 60 Only matrics to be admitted

Students are admitted from all provinces of British India and States

Monthly expenses of lodging, boarding, etc are Rs 15 per month

#### **SCHOOL OF CIVIL ENGINEERING,**

**Andar St, Teppakulam Post, Trichinopoly**

The School provides training in Civil Engineering to fit up persons for Subordinate Engineering Services as draughtsmen, surveyors, inspectors, etc

Admission shall be open to holders of completed S S L C or any equivalent or higher studies, in January and July

The Course extends over the year The tuition fee may be paid either in one sum of rupees one hundred or in ten instalments of rupees ten and annas eight each

#### **SCHOOL OF ENGINEERING, BANGALORE.**

The school admits students for the Diploma Course in Civil, Mechanical or Electrical Engineering, three years' course followed by a year's practical training and for the Certificate Course in Mechanical or Electrical Engineering (2½ years' course)

The qualification for admission to the Diploma course shall be a pass in the S S L C Examination (E C) with mensuration, survey-

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ing and workshop practice for Civil Engineering, and corresponding subject of Group C for Mechanical and Electrical Engineering. A candidate who has passed the S S L C Examination in Group B (E C) shall be eligible for admission, subject to certain conditions during the first year and in workshop practice during the vacation at the end of the first year, a candidate admitted to the Mechanical and Electrical Engineering Course shall undergo a course in one of the workshops during the vacation at the end of the first year according to the prescribed course.

The tuition fee for the course is Rs 60 per year for Mysoreans and Rs 120 per year for non-Mysoreans, payable in four equal instalments. The fee for admission is Rs 5 to be remitted with the application for admission.

The qualification for admission to the certificate course shall preferably be a pass in the S S L C Examination (E P S). There shall be only one course in Electrical Engineering. The course in Mechanical Engineering shall consist of a main subject such as Machine shop, Fitting and Plumbing, Carpentry and pattern making, Foundry, Smithy, Power Plant and Pumps, Electric Wiring, and a subsidiary subject from among the following: Fitter, Smithy, Fitter, Pattern making, Fitting, Carpentry and Fitter. A candidate for a Certificate in Mechanical Engineering in groups 1 to 6 shall, in addition, be required to attend classes in sketching, workshop practice, descriptive engineering and estimating; those taking group 7 shall attend classes in sketching, electric wiring and estimating. The tuition fee for the course is Rs 45 per year for Mysoreans and Rs 100 for non-Mysoreans, payable in four equal instalments. The fee for admission Rs 2.

The maximum number of students to be admitted shall be 75 for the Diploma Course and 75 for the Certificate Course.

Every student on admission will have to pay a security deposit of Rs 10 in respect of Mysoreans and Rs 15 in respect of others. Sports and association fees shall be Rs 5. The medical examination fee of one rupee shall be paid by the first and third year students.

#### **THOMASON CIVIL ENGINEERING COLLEGE, ROORKEE.**

**Civil Engineering Class—Course 3 years.** Candidates must not be under 17 or above 21 years of age. Overage candidates upto 25 years of age on June 1, preceding the examination can also appear under certain conditions. Session commences on 16th October. Application to be made not later than the 1st May. An entrance examination (fee Rs 20) is held in the first week of June. The minimum qualification is a pass in the Intermediate Examination with Chemistry or Physics and Mathematics.

Tuition fee Rs 24 p m. Hostel Rent Rs 5-12 per mensem. Books cost about Rs 185. Final Examination fee Rs 40.

Sixteen scholarships of Rs 50 per mensem are sanctioned for this class. Of these 6 will be awarded to first year students, five to second year students and five to third year students one in each year is reserved for a scheduled caste student. Only United Provinces students are eligible for these scholarships.

Common Mess is maintained. Messing Charges (approx), Vegetarians Rs 30 and Non-Vegetarians Rs 40 per mensem. These charges are included in the monthly expenses.

**Overseer Class—Course 2 years.** Candidates must not be under 16 or above 21 years of age. Overage candidates upto 25 years of age on June 1, preceding the examination can also appear under certain

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conditions. Session commences on 16th October Application to be made not later than 1st May. An entrance examination (fee Rs 10) is held in the first week of June The minimum qualification is High School Examination or its equivalent

Tuition fee Rs 6 per mensem Hostel Rent Re. 1 per mensem

Sixteen scholarships of Rs. 25 per mensem are sanctioned for this class Of these 8 will be awarded to the 1st year students and 8 to the second year students, one in each year is reserved for a scheduled caste student Only United Provinces students are eligible for these scholarships.

**Draftsman Class**—Course 3 years Session commences on 16th October Applications to be made not later than 1st May. The entrance examination is held in the 1st week of June The minimum qualification is a pass in School Promotion Examination in Class VIII of an Anglo Vernacular School

No fee and no rent Instruments will be supplied free.

There are 12 scholarships of Rs 4 per mensem for this class out of which three are reserved for scheduled caste students, one in each year

### **TRAVANCORE UNIVERSITY, TRIVANDRUM, TRAVANCORE.**

#### **Faculty of Technology.**

**Engineering.** Degree (B Sc Eng) Diploma and Certificate Courses in Civil, Mechanical and Electrical Engineering are provided in the College of Engineering The Degree Course extends over five years (four years at College and one year's practical training) The duration of the Diploma Course is four years Admissions to both these Courses are made on the results of selective tests The minimum qualification for admission to these Courses is the Intermediate and School Final (Matriculation) Examinations respectively.

**Textile Technology** The Institute of Textile Technology offers three-year Diploma Courses in Textile Technology and Textile Chemistry Two-year Certificate Courses in (i) Weaving—Hand and Power Looms, (ii) Bleaching, Dyeing, Printing and Finishing, and (iii) Embroidery, Needlework and Knitting (for women only are also provided).

### **SUPPLEMENTARY LIST**

Govt School of Engineering, Fort City, Mysore

### **FOREST COLLEGES**

#### **INDIAN FOREST COLLEGE, P.O. NEW FOREST, DEHRA DUN.**

This college provides training for officers for Superior Forest Services

The course covers two years, and among other conditions an honours degree in a natural science, agriculture or mathematics not lower than 2nd class, or a pass degree in agriculture not lower than 1st class, is required as a qualification for entry Only those students are accepted who are deputed by their Provinces or States, or who have a guarantee of employment on their successfully completing the course. The present class (April 1942 to March 1944) consists of 28 students

The fees at present fixed are Rs 3,500 per year and the total cost of the course is about Rs 11,000 is follows —

Fees @ Rs 3,500 per year	7,000
Stipend @ Rs 100 p m (to cover living expenses)	2,400

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Travelling expenses for field training and tours	---	1,000
Camp outfit, etc	----	600
		<hr/>
TOTAL	---	11,000

The next course will commence in April, 1944

All applications for admission should be addressed to the President, Forest Research Institute and College P O New Forest, Dehra Dun

### INDIAN FOREST RANGER COLLEGE,

Dehra Dun.

This College is a residential institution attached to the Forest Research Institute and trains men for the posts of Rangers in provinces and Indian states and for private employment

There are four categories of students (1) Students already in Government service, (2) Government probationary students, stipendiary or non-stipendiary, (3) Students deputed by Indian States, British Colonies, etc, (4) Private students

Private students are not admitted unless they hold a guarantee of employment on passing out of the College

Candidates of categories 1, 2 & 3 must apply to the heads of the forest department in the province and state concerned

Candidates must not be less than 18 nor more than 25 years of age on 1st April of the year in which they are admitted

All applications must be accompanied by the following certificates a certificate of age, a health certificate in the form prescribed in Article 49 of the CSR, 5th edition, a certificate of respectability and good moral character, a certificate of having passed the Intermediate examination of any recognised Indian university with one or more of the following subjects Mathematics, Physics, Chemistry, Botany, Zoology

Every candidate will be required to pass a qualifying examination in the following subjects (1) English Essay, (2) General Knowledge, (3) Mathematics, and (4) Dictation

The examination is held in October simultaneously in a number of centres all over India

The selection of students from among the qualified candidates rests with the provinces or states concerned

All selected students, not already in Government service, will be required to undergo preliminary training in the forests for at least 3 months Before they are admitted to the College, they must produce certificates signed by the Divisional Forest Officers under whom they served and countersigned by the Conservator of the circle or by a state authority, that they have undergone the course of preliminary training satisfactorily and are likely to make useful forest officers

The College course is one of two years and starts on 1st April of each year It includes lectures at Dehra Dun and practical work in selected forests

The training fees are fixed at Rs 1,500 per annum, payable in two equal instalments each year by the deputing authorities The fees will cover the cost of tuition, lodging, light, water and other services

In addition to the fees, Indian States are required to deposit with the Director of the College, for each student, Rs 1,200 to meet the ordinary expenses of living and Rs 600 to cover actual expenses of touring Several provinces grant stipends of Rs 50 per mensem to their students

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Students are required to wear a prescribed uniform. They are also required to live in the College hostel and to take their meals at a common mess, catering separately for vegetarians and non-vegetarians.

Successful students are awarded certificates (Honours, High Standard and Lower Standard, as the case may be) on passing out of the College.

For further information application may be made to the Director, Indian Forest Ranger College, Dehra Dun, U P.

## INDUSTRIAL & TECHNICAL INSTITUTIONS.

### BALASORE TECHNICAL SCHOOL, BALASORE, ORISSA.

This is the technical department of the Christian High and Technical School, Balasore. Some Industrial work is taught to all classes in the high school, Spinning in Classes IV, V and VI, Bicycle Repairing in Class VII, Woodwork and General Science in Class VIII, Toy making and electricity in Class IX, Manual Training and Commerce as additional subjects for the Matriculation Examination.

Technical Diploma courses (5 years) are offered with half time theoretical instruction and half time practical shop work in any of the following trades—Carpentry, Painting and Polishing, Blacksmith, fitting, Machine shop, Motor Car Repair, Electricity, Water Supply and Sanitation.

Artisan Courses (3 years, full time shop work) are offered in Carpentry and Blacksmith only with opportunity for the best students to proceed to other trades mentioned above.

Part Time Commercial courses are offered in Typewriting, Short-hand and Book keeping, and Full time Commercial courses with half time in office practice.

Minimum entrance requirements for Commercial work are 9th Standard passed with good knowledge of English, for Technical Diploma course Middle English passed, for the Artisan Course no educational qualifications.

### BERAR VICTORIA MEMORIAL TECHNICAL INSTITUTE, Amraoti, Berar

In the Institute there are two courses, namely Carpentry and Metal. In the Carpentry section instruction is given in joinery, cabinet making, wood turning, polishing, varnishing and Machine drawing. The Metal section comprises Forging, Fitting, Moulding and Mechanical Drawing. Both sections have three years course and scholarships are awarded to students learning in the two sections. Candidates who have studied up to VIII, Vernacular Standard and who are below 19 Institute for boys of both sections. Messing charges come to Rs 5 per boy per month approximately. No fees are charged for boys who years of age are admitted in the school. New session of the school begins from the 16th June every year. A hostel is attached to the Institute.

### CALCUTTA TECHNICAL SCHOOL, 110, Surendra Nath Banerjee Road, Calcutta.

The School offers the following courses of instruction—

1 Mechanical and Electrical Engineering Course Five years' (10 terms duration) course. Candidates must have passed either the Entrance Examination of the School or the Board of Apprenticeship Train-

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ing Admission Examination They must be bonafide apprentices of recognised workshops Candidates must not be under 16 years Session begins in July Tuition fees Rs 8 per month

2 Plumbing and Sanitary Engineering Course Qualifications same as above Session begins in July Tuition fees Rs 8 per month

3 Electrical Supervisors' Course of 1 year Session commences in the 1st week of March Tuition fees Rs 5 per month.

Other short courses are Shoe and leather goods manufacture, foundry work, cutlery manufacture and textile industry

### CENTRAL TECHNICAL INSTITUTE, LASHKAR, GWALIOR

The Central Technical Institute is a Government Institution run by the Education Department, Gwalior Government, and provides instruction in the following courses —1 Certificate course in Mechanical Engineering (3 years), 2 Fitting Manual (2 years), 3 Carpentry (3 years), 4 Certificate course in Weaving Technology (3 years), 5 Weaving Manual (2 years), 6 Dyeing and Printing (2 years)

A fourth year advanced (Diploma) course, intended for students passing the Certificate examination in Mechanical Engineering and Weaving Technology courses is also provided Students of the Institute can as well appear for the respective and equivalent examinations of City and Guilds of London Institute for which Central Technical Institute Gwalior is one of the centres It is also one of the centres for the Drawing Examinations (both Elementary and Intermediate grades) of the Bombay School of Arts and Crafts conducted by the Government of Bombay.

The minimum qualification for admission to the certificate courses in Mechanical Engineering or Weaving Technology is that the applicant shall have passed the High School examination (with Science as one of the subjects) or any other equivalent examination recognised by the Inspector General of Education, Gwalior Government For other courses, the minimum qualification for admission is that the candidate must have passed the Gwalior State Middle Examination, or its equivalent Application for admission is to be made before 15th of July, on which date the Institute's regular session begins

Outside students shall pay a yearly fee of Rs 36 in the first year, Rs 48 in the second year and Rs 60 in the third year of any course

Excellent Hostel accommodation is also provided, but as there are only a limited number of seats available for outside students applications for Hostel accommodation should preferably be made at least two weeks before the sessions begins

Recently the Government of Gwalior has made additional provision for coaching 89 War trainees under the Government of India Technical Training Scheme in (i) Fitters, (ii) Turners and (iii) Machinists courses and the actual working with nearly the full quota of trainees has been started from the beginning of the session 1941-1942

### COLLEGE OF INDUSTRY AND TRADE,

144, Dharamtallah Street, Calcutta.

Teaches the following industries on co-operative basis —

(1) Glass mfg (2) Rubber mfg (3) Enamel mfg (4) Match mfg. (5) Torch light Battery mfg (6) Storage Battery mfg (7) Electric Fan mfg (8) Electric Motor mfg (9) Electric Bulb Mfg (10) Cosmotic mfg. (11) Soap mfg (12) Tanning. (13) Electroplating (14) Galvanizing (15) Bucket mfg (16) Aluminum ware mfg (17) Dipped Rubber Goods mfg

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Correspondence Course in —(1) Electrical Engineering (Diploma from U S. A.) (2) Cosmetic mfg (3) Soap mfg. (4) Torch light Battery mfg (5) Dipper Rubber Goods mfg

### **CRAIK TECHNICAL SCHOOL, LAHORE.**

There are two major Departments,—(a) Electro-Mechanical Department, and (b) Die Press Sheet Metal Works Department. In each of the Departments the full course is of 4 years' duration

1 Electro-Mechanical Course —The students will be given a general idea in the following so far as they are connected with the Course — 1 Technical Drawing, 2 Pattern Making, 3 Foundry work, 4 Turning and Smithy, 5 Fitting, 6 Electro-technology, 7 Theory of Machines, 8 Electrical Design, 9 Armature Winding, etc

Candidates for admission to the Electro-Mechanical department are selected on the results of an entrance examination which is held at the end of May or early in June each year at the Science Amphitheatre of the School. The minimum qualification for admission to the entrance examination is the pass of the Vernacular Final Examination, or the Anglo Vernacular Industrial Final Examination, but preference will be given to those possessing higher qualifications

II Die Press Sheet Metal Works —General idea will be given in —Technical Drawing, Die-sinking by Hand, Die Press work, Pattern making, Foundry work, Stove Varnishing, Electroplating, Sheetmetal work etc

The session begins on the 1st of June each year. Casual students are admitted any time of the year

Applications for admission must be made on the prescribed form on or before 15th May.

The tuition fees vary from Re 1. to Rs 2, per month. Extra Provincial students, i.e., subjects of Indian States or other non-Punjabies, are charged Rs 65 per annum as fees and are not eligible for any concession

### **D. B. TECHNICAL SCHOOL, BURDWAN, (Established 1893). (Aided and Affiliated under Industries Department, Govt. of Bengal).**

There are 3 courses of studies —

(1) Sub-Overseer Department —Generally Matriculates are admitted in July each year. There is no restriction of age and monthly tuition fee is Rs 3, besides admission fee of Rs 3, Games fee Re 1-8 and caution money deposit Rs 5 on first admission. Course extends over 1 year 9 months. 30 candidates are admitted

(2) Junior Technical Department —Students with M. E. pass or of the 4th Class Standard of H. E. Schools are admitted in January each year. Those with age about 15 years and of good physique, are preferred for admission. Monthly tuition fee is Rs 3 besides the Games and admission fees as above. The course extends over 4 years and 8 candidates are admitted annually

(3) Improved Artisan Department —Students with knowledge of the class V standard of H. E. Schools are admitted in January each year. Boys above 12 years of age are admitted without any fees

The average monthly expenses in Messes are Rs 14 nearly.

### **DAYANAND INDUSTRIAL SCHOOL, Langley Road, Lahore.**

Courses of Study Tailoring (3 years), carpentry (3 years), book binding (1½ years) and cycle repairing (6 months). Candidates must

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have read up to Lower Middle standard, minimum age 14 years Admission takes place twice a year, i.e., 1st to 31st April and October

**DEPARTMENT OF CHEMICAL TECHNOLOGY,  
UNIVERSITY OF BOMBAY, BOMBAY.**

Two courses of study, textile chemistry and chemical engineering, each extending over two years, have been organised. The course in textile chemistry is intended to prepare students to occupy responsible positions in a textile mill or in an industry connected therewith, while that in chemical engineering is designed to give the student a general knowledge of chemical engineering and its application in industrial chemistry, so that he may be able to play his part in the building up of the chemical industries of the country.

A course in Pharmaceuticals and Fine Chemicals, leading to the degree of BSc (Tech), will be instituted in June 1943.

**Admission**—The minimum qualification for admission is a BSc of the University of Bombay in the second class with chemistry as principal and physics as subsidiary subjects or other equivalent qualification. Twelve students are admitted to the course in textile chemistry and ten to that in chemical engineering every year. The seats are allotted strictly according to merit.

**Fees**—The tuition fees for graduates of the Bombay University are Rs 125 per term and for other students Rs 200 per term.

**Facilities for Research**—Facilities are also provided for students working for the higher degrees of MSc (Tech) and Ph.D. in the Faculty of Technology. Other qualified students intending to carry out research work within the purview of the Department are also admitted if accommodation is available. The fees for the former are Rs 30 per term, those for the latter being fixed in individual cases subject to a minimum of Rs 30 per term.

The Department is fully equipped for conducting research on all the common chemical industries. A research laboratory, and experimental dyeing laboratory, a dyehouse carrying a complete range of semi-scale plant for all processes from singeing to finishing and a very well-equipped optical laboratory are available, in which any problem in the chemical technology of textiles can be investigated. The technical chemistry and fuel laboratories provide facilities and accommodation for several workers in these subjects. The chemical engineering laboratories, containing unit plant of every type, offer opportunities for carrying out semi-scale work on chemicals and for the trying out of works processes. Special apparatus and small scale plant may be fabricated in the departmental workshop.

Arrangements have been made to supply mills and factories with copies of the research papers published by the Department.

**Analytical work and technical investigations**—The institution acts as a central research and analytical laboratory for the benefit of the industries of the Province.

**DIAMOND JUBILEE INDUSTRIAL SCHOOL, RAJSHAHI**

The following are the departments —Sub overseer—2 years' course  
Class begins in July

School Final for Surveying and Manual Training

Amin—1 year's course from August

Artisan—Carpentry and Blacksmithy 3 years' course Also machine shop

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No restriction of age to the Sub-overseer and Science course classes, but the students must have completed at least 16th year for the amin and 13th year for the artisan class

School fee will be charged from the Sub-overseer students at Rs 2-8 and Rs 3-8 per month, and from Amin students at Rs 2 and Rs 3 per month, for residents of Rajshahi District and other districts respectively.

#### **ELLIOT BANAMALI TECHNICAL SCHOOL, PABNA.**

The school consists of the following departments—Sub-Overseer Department, Survey Department, Motor Mechanic Classes, Artisan or Industrial Classes

Sub Overseer class—Pass in the Matriculation Examination of the Calcutta University or of the Dacca Intermediate Board in English, and Mathematics Session commences in July The course extends over a period of one year nine months only, the first year class running from July to June and the second year class from July to March The full course of study for the overseer students extends over a period of 4 years The first two years are termed the Sub-Overseer course, and the last 2 Overseer course

Survey Dept—Candidates must have passed at least the M E Examination Preference is given to candidates with higher educational qualification One year's course begins from August

Motor Mechanic Class—Both theoretical lessons and practical demonstrations Session commences in January Full course including driving, 1 year, fees Rs 2-8 per month Professional driving course 3 months Fees Rs 25 for the full course Special course of driving for owners, 1 month, fees Rs. 20

Artisan Course—Training imparted in carpentry and smithy. Course 4 years Free tuition

Hostel Accommodation—There are one Hindu and one Muslim Hostel for giving accommodation to the students

A number of stipends in the Sub-Overseer and Artisan classes

War Training Classes—Under the Government of India Technical Training Scheme, special classes have been opened for imparting training to the War Trainees in Turners, Fitters, Blacksmiths, Surveyors and Mechanical Draughtsmen Trades

#### **FARDUNJI SORABJI PAREKH TECHNICAL INSTITUTE, Sonl Faha, Surat.**

Three years' graduated courses in Mechanical and Automobile Engineering, and Carpentry and Furniture Making, and two years' graduated courses in Mechanical Apprentices and Motor-Mechanics, and one year's Electrical Wiremen's Course

Fees of Rs 11 per term ( $\frac{1}{2}$  year) for Mechanical Engineering, Automobile Engineering and Electrical Wiremen's Courses, and a fee of Rs 3 per term for the Mechanical Apprentice, Motor Mechanics and Carpentry Courses Applications should be sent before the 5th June Session commences from June.

Candidates for admission to Mechanical Engineering and Automobile Engineering Courses must be above 15 Students who have passed English VI Std are admitted Those who possess less qualifications than above are admitted to any one of the remaining Courses

Minimum cost of living at Surat is Rs 15 to Rs 18 per month

One year course in Handmade paper making industry has been added

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**GOVERNMENT CARPENTRY SCHOOL, ALLAHABAD.**

The School is under the control of the Director of Industries U P Application for admission should reach the Principal not later than June 30th and, if necessary, an examination may precede admission.

The following classes are run —(1) General wood-working class (Course 3 years), (2) Advanced wood working class (Course, 3 years) Admission to this class is made on completion of General Wood Working class, (3) Teachers' Training class (Course 2 years, admission being restricted to men who have completed the General or Advanced Classes in the Allahabad or some kindred school, or who can demonstrate their ability to take up the subjects within the period prescribed for this course), (4) Polishing and Painting Class (Course 3 years) and (5) Upholstery class (Course, 3 years) Special Classes for Factory foremen and Managers may also be arranged

All Tuition is free for U P students and substantial prizes are given on merit each year

**GOVERNMENT CENTRAL WOOD-WORKING INSTITUTE,  
Bareilly, U P.**

The institute trains wood-workers in the use of improved hand and machine tools and provides facilities for the training of men in the allied trades of timber seasoning, wood-finishing and upholstery Instruction is provided in both machine and handwork

Session commences on July 1, and ends on May 19 each year and application on the prescribed form must reach the Principal of the Institute not later than June 15 each year Admission are made on the result of an examination held on the opening of the session

The following courses of instruction are provided —

Cabinet-making and Joinery (2 to 3 years' course), Wood-working Machinist's Course (3 years), Painting, Polishing and Wood-finishing (2 years), Upholstery (2 years), Kiln Seasoning Course (1 year).

**GOVERNMENT INDUSTRIAL SCHOOL, BELLARY**

The School provides instruction in cabinet-making and general mechanics course No tuition fee is charged and apprentices who make satisfactory progress are paid stipends

44 fitter trainees and 4 turners are being trained in this school under the Technical training scheme started by the Government of India, Department of Labour

**GOVERNMENT INDUSTRIAL SCHOOL, CALICUT**

The school was started in July 1929 It provides full time instructions in Mechanical Engineering and Cabinet making Students with S S L C or equivalent general educational qualifications are admitted to the former and those with lesser qualifications to the latter The Courses are of five years' duration and the education is imparted free Admission is made in July Students attending these courses are paid daily wages ranging from 3 As to 6 As

The following additional course was started in 1938

Casting and Metal Working Course of one year's duration Admission is limited 12 in any one year Four scholarships at the rate of Rs 5 per mensem are awarded to deserving poor students

About 150 War Technicians are being trained in the school now

**GOVERNMENT INDUSTRIAL SCHOOL, MADURA**

The School provides apprenticeship in carpentry and cabinet making, general mechanic's work and metal work and a short special course

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of 12 months in oil engine driving and the care and management of running machinery Besides, a course of two years, to train pupils in Practical Wiring has been introduced

Admissions are made on 1st July each year Candidates must be over 15 but under 18 years No fees will be charged for tuition The hostel fees about Rs. 12 monthly Special short courses in oil-engine driving and the care, adjustment and economic running of industrial machinery are also conducted Fees will be charged at Rs 12 per month

Fees for Practical Electrical Wiring Course, Rs 8 per annum There is a hostel attached to the school

#### **GOVERNMENT METAL WORKING SCHOOL, ALIGARH, U. P.**

There are two courses of instruction --(1) Mechanics class of three years' duration, (ii) Artisan class of two years' duration

Mechanics class—Qualifications up to middle standard The medium of instruction is vernacular, except for technical terms which will be English

Artisan class—No educational qualification necessary, except that candidates shall be literate, preference to be given to boys of artisan class The course is thoroughly practical There will be three sections, (a) Lockmaking and Engraving, (b) Sheet metal work and Pressed metal work, (c) Building and Furniture Fittings

No tuition fee from students of the United Provinces Games fee Rs 3 per annum from all students Age—Ordinarily not less than 14 years

Application for Admission should reach the Superintendent before the 1st of July Session commences from 1st July

#### **GOVERNMENT METAL WORKS INSTITUTE, AMBALA CITY.**

The Institute is equipped with the most up-to-date Machinery and provides 4 years training in the Trades of Automobile repairer, Machinist, Turner, Pattern makers and foundry makers

Institute Fee is As 12, Hostel Fee is Rs 4, Institute Security is Rs 10 Hostel Security is Rs 2, Library Security is Rs 2 Boarding house is provided for outsiders

Candidates for admission must have minimum qualifications of vernacular middle Matriculates below 20 years are preferred

#### **GOVERNMENT METAL WORKS INSTITUTE, Paris Road, Sialkot.**

The Institute provides practical training in Metal work by modern methods, including the use of power Machines, and gives the students a sound knowledge of Mechanical Drawing and theory

Qualifications for Admission First preference Matriculated, Second preference Anglo-Vernacular industrial final school passed, Third preference Vernacular industrial final school passed, Fourth preference Vernacular final passed

Admission to the Institute takes place in April and May each year Not more than 30 pupils are to be admitted in the regular course Fees Punjabi students in all classes Annas 12 per mensem Non-Punjabi students Rs 155 per annum

#### **GOVERNMENT RATTAN, CARPENTRY & SMITHY SCHOOL, University of Travancore, Trivandrum.**

The School has three sections (1) rattan; (2) carpentry and (3) smithy The course on carpentry and smithy extends for 3 years and

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that on rattan for 2 years The school year begins by the 2nd week of July, candidates for admission to the school shall be Holders of vernacular school leaving certificates or should have passed English third form

In addition to the above courses, this school also imparts instructions in carpentry (theoretical and practical) and machine drawing to the diploma and certificate course students of the Institute of Textile Technology, University of Travancore

### GOVERNMENT SCHOOL OF TECHNOLOGY, MADRAS.

The following are the courses of study in the institution —

	Duration	Fees
1 Mechanical Engineering	5 Years	Rs 36/- per year.
2 Electrical Engineering	4 "	" 36/- "
3 Printing —		
(a) Composing and Proof-reading	2 Years	Rs 12/- per year.
(b) Machine Binding	2 "	" 12/- "
(c) Binding & Management for those who have completed courses (a) & (b)	1 "	" 12/- "
4 Practical Elec Wiring	2 "	" 12/- "
5 Mechanical Drawing Classes in		
(a) Metal Work	2 "	" 5/- "
(b) Wood Work	2 "	" 5/- "

Students will be admitted to only one course at a time The minimum general educational qualification for admission to the course (1) to (3) is S S L C

Diplomas of L M E, I E E, and L P T, are awarded to successful candidates in Mechanical Engineering, Electrical Engineering, and successful candidates in other subjects

There is also a Preparatory Section for young boys with 1st form or 8th standard qualification and who are below 14 years of age

The Perambur Branch School is attached to the Madras and Southern Mahratta Railway Workings

The school conducts the Electric Wiring Competency Examination and the examinations of the City and Guilds of London Institute, London

6 Plumbing Course	2 Years	Rs 12/- per year
7 Minor Sanitary Service—1 year for those who have passed Plumbing and who have studied upto S S L C	--	Rs 12/- per year.
8 Light Metal Casting Section—for young boy 8 year, no tuition fee is charged		

### GOVERNMENT TECHNICAL INSTITUTE, GORAKHPUR.

Mechanical and Electrical Engineering Class—Course is of three years, followed by two years' practical apprenticeship in recognised mills and factories

The minimum qualification for admission is Class X standard of an Anglo-Vernacular School A competitive examination is held in July Candidates should be between 15 and 20 years of age

Training in the Artisan class is given in the following sections Electric wiremen's work, Engine and Boiler attendants work, Pattern making and moulding shop work, Machine shop work, smithy and fitting shop work Fees for Mechanical and Electrical Engineering class

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is Re 1, per mensem and Artisan class As 8 per mensem Non-U. P men are required to pay Rs 360, per year as institute fees

#### GOVERNMENT TECHNICAL INSTITUTE, JHANSI.

Age limit for admission is 17 to 19 years on the 1st January following the admission examination Educational qualifications—High School examination pass or Junior Cambridge with mathematics Admission examination is held in November each year

Course of training—Railway Mechanical and Electrical Apprentice Class (9 months in the shops at Jhansi or Bombay and 3 months at the Institute for the first four years and the complete fifth year in the shops) Period of training five years

#### GOVERNMENT TECHNICAL INSTITUTE, LUCKNOW.

The institute provides training in the following branches and is a centre for the City and Guilds of London institute Examinations

(a) (i) Mechanical Engineering course, (ii) Electrical Engineering course The duration of course is 3 years followed by 2 years of practical apprenticeship in railways or other workshops Admission to these classes will be opened only to those students who have passed the High School or an equivalent examination or the Senior Cambridge Examination with Mathematics and Physics as subjects in each case

(b) Light Machine Mechanics course—Three years' training in the Institute Candidates who have passed or appeared for the VIII class of High Schools are eligible for admission

(c) Painting class—Three years' training in institute

(d) Oil Engine driving class—Five months' training in institute. Admission to this class will be made on the 1st July and 2nd January.

Fees—Engineering (Mechanical and Electrical) and Light Machine Mechanics—Re 1 per month Oil Engine driving—Rs 15 for the whole session of five months No fees are charged for Painting and Saturday Morning and Evening Classes Ex-provincial students are admitted only on special terms

Hostel—A hostel is attached to the institute and Re 1 per month as hostel fee (inclusive of medical fee) is charged Admission fee of Re 1 is charged extra The approximate cost of living in the hostel is Rs 15 per month

#### GOVERNMENT TRADES SCHOOL, MANGALORE

The classes consist of a mechanics course of five years' duration for the benefit of apprentices employed in general engineering in the local factories and workshops and a Wood-workers' Course of two years' duration The syllabus followed is that adopted for the Engineering classes of the Perambur branch of Government School of Technology, Madras The school is a training centre for War-Technicians approved by the Government of India

#### HARCOURT BUTLER TECHNOLOGICAL INSTITUTE,

P O Nawabgunj, Cawnpore, United Provinces

There are two separate sections in the Institute—(1) General Research Section, and (2) Oil Section

General Research Section—There is no regular teaching in this section but advanced research workers who possess a degree in science or agriculture are admitted for a period of two years, the number being limited to a maximum of three each year These advanced research workers by actual work and being associated with and helped by the staff of the section, receive training in methods of industrial research Two of the above workers who have obtained the diploma of the Institute may be admitted in the Post Diploma Course in the

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General Research Section for a further period of two years advanced research on completion of which they are entitled to Fellowship Diploma of the Institute if the work is satisfactory

**Oil Section**—There are three courses in this section (1) A two years' diploma course for oil technologists to which twelve students who possess the BSc degree in science or agriculture are admitted every year (2) A two years' post diploma course to which three students, who have obtained the diploma of the Institute, may be admitted each year (3) Three short courses of six to eight months in (i) oil milling (ii) soap making, or (iii) the preparation of oils, paints and varnishes, to which eight students who possess a degree in science or agriculture are admitted each year

No tuition fee is charged from U P students. In case of available vacancy Non-U P students are admitted only on payment of Rs 500 per annum for regular courses, i.e. the major course of two years' duration, and Rs 25 per month for the minor courses

The application for admission should be made in the prescribed form and should reach the Principal complete in every respect, before June 15. A registration fee of Re 1 and a deposit of Rs 15 should be sent along with the application

There is a hostel attached to the Institute. It provides accommodation for about seventy students. A fee of Rs 3 per month per student is charged. Students make their own messing arrangements

#### **HINDU INDUSTRIAL INSTITUTE, 25, Amherst St., Calcutta.**

This institute provides free training to Hindu boys in tailoring, book-binding, embroidery and knitting. Accommodation in school hostel for 20 boys. Admission fee Rs 5 only. No other fees. Scholarships awarded to poor and deserving students. Raw materials for practice provided by the school free of charge. Students are helped to find employments or to establish their independent business after finishing the course of training

#### **IMPERIAL INSTITUTE OF SUGAR TECHNOLOGY, CAWNPORE.**

**Regular Courses**—There are six regular courses of training for students desiring to qualify for technical posts in sugar factories, viz., the Fellowship Courses in Sugar Technology and in Sugar Engineering, the Associateship Courses in Sugar Technology and in Sugar Engineering, the Sugar Boilers' Certificate Course, sugar engineering certificate course

**Short-term Courses**—Special short courses are held during the non-working period of sugar factories, from July to October each year. They are specially suitable for men whose services are not needed at the factory during the non-working season. The short term courses are (1) Chemical Control, (2) Bacteriology, (3) Pan Boiling, (4) Fuel and Boiler Control, (5) Statistical Methods (for research students), (6) Statistics (for sugar students), (7) Dutch Language and (8) German Language (9) Milling Plant operation and Control and (10) Sugar Storage. The first two extend over two sessions while the rest are of one session. The last date for the receipt of applications for admission to all sugar courses is 10th June and the new session for them starts from 10th July. Admission to the Associateship Course in Sugar Engineering will be received upto 15th July and the new session will start from 7th August

#### **J. N. TATA HUNARSHALA (TECHNICAL INSTITUTE), Khushrooh Building, Navsari, (Baroda State).**

Courses of instruction, (1) Mechanical Engineering, (2) Workshop apprentice course, (3) Electrical Wiremen's course and (4) Cabinet mak-

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ing course Each course except the Electrical Wiremen's course takes 3 years and the Wiremen's course takes one year Mechanical Engineering classes admit students who have studied up to VII standard The term commences from June 15th Fees for Mechanical Engineering Workshop apprentice course and Electrical Wiremen's course are Rs 11, per term of 6 months and Rs 4 for cabinet making A student's average monthly expenditure is Rs 20

#### **JAMSHEDPUR TECHNICAL INSTITUTE, JAMSHEDPUR.**

The Tata Iron & Steel Company consider applications for admission to the Jamshedpur Technical Institute, from Indians who wish to take up a career at the Company's Works at Jamshedpur and who possess any one of the following qualifications —

**Class B** A Degree or Diploma in Mechanical or Electrical Engineering or Metallurgy of a recognised Indian or Foreign University, Technical Institute or College

**Class A (1)** An Honours of First Class Degree or Diploma in Mechanical or Electrical Engineering or Metallurgy of a recognised Indian or Foreign University, Technical Institute or College, preferably accompanied by Works experience Abroad

**Class A (2)** An Honours of First Class Degree or Diploma in Mechanical or Electrical Engineering or Metallurgy of a recognised Indian or Foreign University Technical Institute or College, accompanied by not less than 6 months continuous practical experience after graduation in an Iron and Steel Works Abroad

The age of a candidate on December 31st 1942 must not exceed —(1) Graduates in Engineering or Metallurgy, Foreign Universities, 27 years, (2) Graduates in Engineering or Metallurgy, Indian Universities, 24 years

Applicants must be of robust physique and be fit to perform hard manual labour and pass a medical examination by Company's Medical Board at Jamshedpur before being accepted for admission.

A combined theoretical and practical training of two years' duration is given at the Institute and in the Works of the Company

Apprentices will receive Rs 75 per month during the period of their apprenticeship if in Class A (1) or Rs 50 per month if in Class B, or Rs 200 per month if in class A2 Selected candidates will be required to supply a surety

The approximate cost of living for apprentices in Jamshedpur is Rs 50 per month Hostel seat rent Rs 4 per month

On completion of their training, the General Manager will select such apprentices as he considers suitable for employment with the Tata Iron & Steel Co, Ltd

#### **KALA-BHAVAN TECHNICAL INSTITUTE, BARODA**

For Diploma Courses candidate must have passed Matriculation or Senior Cambridge or Oxford Senior Local Examination except for Painting For admission in Painting a student must have passed the intermediate grade examination in Drawing Candidates must have completed their 16th year. Standard of admission for all Certificate courses except the Commercial course is Vernacular V Std or English III Std pass For women's course the standard is English V Std

Diploma courses Engineering —(1) Mechanical Engineering (2) Civil Engineering (3) Electrical Engineering Technology —(1) Chemical Technology and (2) Weaving Technology Art & Architecture —(1) Architecture (2) Painting Certificate Courses —(1) Turner,

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Filter or Foundry & Smithy (2) Wiremen (3) Carpentry (4) Dyeing & Textile Printing or Soap making (5) Weaving (6) Draftsmanship & Tracing (7) Photography & Photo-Process (8) Motor Mechanics (9) Drawing (10) Commerce (11) Typewriting & Shorthand

The tuition and other incidental fees are as follows —

For Baroda State subjects —Diploma—Rs 71/- per year Certificate—Rs 37/- per year, Vocational Course—Rs 52/- per year For outsiders —Diploma—Rs 101/- per year, Certificate—Rs 67/- per year, Vocational Course—Rs 77/- For Typewriting Course for Baroda subject or outsider—Rs 52/-.

Kala-Bhavan Hostel can accommodate about 50 students only. The cost of living in Baroda is about Rs 30/- per month

### KERALA SOAP INSTITUTE, CALCUT.

Training of apprentices —Apprentices are admitted for training in the manufacture of soaps. There are two courses of training. The long course extends over a period of one year and the short one covers three months. Students who have undergone the long course may take an advanced course of training for a further period of one year. Term begins from the middle of June

Fees	Students from the Madras Presidency	Students from other Provinces including Indian States
	Rs	Rs
One year's course	100	150
Short course	75	125
Advanced course	50	50

Qualification S S L C, but in special cases applications from candidates with lower educational qualifications will be considered

### LAL SINGH MANSINGH INDUSTRIAL SCHOOL

Mainpuri, U. P.

Session begins from July and ends in May. Training and lodge free. Qualification for admission is vernacular final standard. Courses consist of carpentry, cabinet making, polishing upholstery, drawing, fret work, burnt wood work, tarkashi, tailoring, weaving, designing, calculation, drawing, dyeing, spinning, cane work, music (vocal and instrumental) and Blind class for teaching music, cane furniture making, cutting, sewing, tailoring. Carpentry and Tarkashi have 3 years' course each, Weaving and Tailoring 2 years' course each. Monthly expenses of a student are Rs 8 only.

### MOBERLY TECHNICAL SCHOOL, HOOGHLY.

Artisan Class —There are arrangements for the following courses of study —Electrical wiring shop (2 years course), Carpentry (3 years course), Smithy (3 years course), Fitters shop (3 years course), Machine shop (3 years course), Motor Mechanics shop (2 years course). There will be no age limit for artisan boys.

Junior Engineering Classes —Boys between 12 and 15 years of age will be admitted for those who intend to go for Board Apprenticeship Examination, otherwise no age limited. Boys in this department are trained to be Junior Mechanical and Electrical Engineer.

Students who have read at least up to the fourth class or class VI of the High School or up to the First class of an M E School will be eligible for admission into Junior Technical Department, while those who are at least barely literate will be admitted to the Artisan classes.

The session commences from January

Organise your business with hints from "Theory & Practice of Commerce and Business Organisation," Rs. 4/8. Industry Book Dept., Calcutta.



A fee of Rs 3 per month will be payable by the Junior Technical Department students as well as by the artisan Students in the Motor Mechanics shop and Electrical wiring shop should pay Rs. 5 per month

There is a short course of 3 months duration in Motor Shops for Driving only Fee Rs 50 only, payable in advance

There is an attached Boarding house for mofussil students Seat Rent free Expenses for messing about Rs 7 to Rs 8 only

**MUNICIPAL MAHILA SHILPA BHAWAN, TRADE & INDUSTRIAL DEVELOPMENT COMMITTEE, Municipal Board, Allahabad.**

The school imparts vocational education to poor and middle class adult women Instructions are given in Embroidery of Tailoring, Plain-sewing, Fancy Leather Craft, Knitting, Weaving, Toy-making, Jewellery box making, Card-board box making, Rag doll making, Cane work, Book binding, etc Lectures are also given on "Sick-Diet," Home-nursing, Care of babies, Cooking and Confectionery. Students read upto Primary IV standard are directly admitted in the 1st year and they complete the Diploma course in 2 years No tuition fee is charged from students coming from a family having an income upto Rs 50 p m, but they will be charged conveyance fee only Applicants must be above 15 years of age Admissions are made from July

**O'BRIEN TECHNICAL INSTITUTE, KOLHAPUR.**

There are various branches in which candidates will be given theoretical and practical training—1 Mechanical Engineering (3 years), 2 Mistry class (3 years), 3 Manual Training (2 years), 4 Weaving (2 years), 5. Electro plating (1 year), 6 Engraving (1 year), 7 Dyeing (1 year) Medium of instruction is mainly marathi and English

Term—Each year is divided into two terms, the first term extends from the 10th June to the 30th September, the second from 1st November to the 20th April

Admission to students in all the classes, is given every year in the second week of June Applications for admission should reach the Superintendent on or before the 31st May of each year

Fees for each branch per term—(1) Mechanical engineering Rs 15, (2) Mistry class Rs 10, (3) Manual Training Monthly Fee of Rs 2 only (4) Weaving Rs 5, (5) Electro plating Rs 10, (6) Engraving Rs 10, and (7) Dyeing Rs 5, Qualification for admission—(1) students for Mech Engineering Class, electro plating and dyeing must have passed the English Standard VI, students for Mistry class must have passed Standard V

Monthly expenses including boarding and lodging Rs 12 to 15

**PREM MAHA VIDYALAYA, BRINDABAN.**

(The Free Industrial National College).

Courses of Study Diploma course—Educational qualifications—Matriculation Period of instruction—3 years Subjects Mathematics, Applied Mechanics, Heat Engines, Engineering Science, Electrical Engineering, Surveying, Mechanic Drawing, Workshop management and business methods

Practical work in Carpentry, Smithy, Moulding, Fitting, Turning, Machine and Electrical Work

Special classes in Moulding, Turning, Fitting, Carpentry and Smithy and Draughtmanship Period of training 3 years Tailoring Course takes one year Subjects Sewing by hand and machine, Theory

"Sketches of Indian Industries" discusses industrial situations and industrial ideals Vol. I & II. Re. 1/4 each. Industry Book Dept., Calcutta.

of measurement, Cutting and paper Cutting Students able to read and write Hindi well are admitted to special and Tailoring classes.

Spinning and Civics are compulsory for all students.

#### **RANCHI TECHNICAL SCHOOL, RANCHI**

The Institute offers five years' improved apprenticeship course of training in the following trades.—Carpentry, pattern making, cabinet making, printing and polishing, moulding, smith's work, fitting, machining, electrical fitting or electrical wiring, motor machines

Candidates for admission should be between the age of 15 and 19 years Selection is based on the result of a competitive admission examination up to the middle vernacular standard held in January. The period of training is not less than five years

Tuition Free A number of stipends ranging from a minimum of Rs 5 per month in the first year and gradually rising to Rs 12 by annual increments are available

Instruction comprises lectures in theory as well as craftsmanship training in the workshop The medium of teaching is vernacular. (Hindi)

#### **SRI CHAMARAJENDRA TECHNICAL INSTITUTE, MYSORE.**

Subjects of instruction —

Five Years' Courses —(1) Drawing and Painting comprising Free-hand, Geometrical, Perspective, Model, Common objects and Nature and Painting in Oil, Water-Colour, Tempera etc, from Casts of ornaments, Antiques, figures Flowers, Fruits, Still life, Drapery and Living model, (2) Modelling in Clay, Wax and Plaster of Ornaments, Antiques and Life figures, (3) Inlaying, (4) Engraving and Enamelling, (5) Metal Work, (6) Rattan Work, (7) Fitters' Work, (8) Black smithy, (9) Wood Carving, 10) Sandalwood and Ivory Carving

Six Years' Course —Carpentry and Cabinet making

Designing for furniture, inlay, carving and other artistic industries is included in the syllabuses for the above subjects

Applications for admission should be made between 15th May and 1st July Admissions are restricted to students who have completed the primary Course in general Education Admission Fee Re 1

Fees and Stipends —No tuition fee is charged to Mysoreans Non-Mysoreans should pay Re 1 per month for Industrial Classes and Rs 2 for Drawing and Painting sections Stipends are granted to Mysoreans only For further particulars and prospectus apply to the Superintendent, Chamarajendra Technical Institute, Mysore

#### **SRI KRISHNA RAJENDRA SILVER JUBILEE TECHNICAL INSTITUTE, Bangalore.**

The Institute imparts instruction in the following courses —

(1) The Diploma Course in Textile Technology In this Course, branches of textile (cotton, silk and wool) manufacture—i.e., weaving and hosiery, dyeing, bleaching, printing and finishing of textile fabrics—will be imparted to enable the young men thus trained to organize and work small scale factories, to enter into business connected with textiles, or to occupy responsible positions in organized large scale textile industries The course extends over three sessions (three academic years) at the institute followed by practical training in an approved mill or factory for a period of six months

The candidates seeking admission to this Course should not be more than 22 years of age in the case of Brahmans and 24 years of age in the case of non Brahmans and should have passed the Intermediate

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(Science) Examination, with Physics, Chemistry and Mathematics as special subjects of the University of Mysore as its equivalent

(2) The Certificate Course in Textile Technology The training imparted in this course will, so far as the practical requirements of the industry are concerned, be similar to that of the Diploma Course, instructions in theory being less exhaustive and limited only to the essential requirements The Course extends over a period of two years at the Institute followed by practical training in a recognised mill for a period of six months on the satisfactory termination of which a certificate will be awarded to the successful candidate The candidate seeking admission to this Course should not be more than 20 years of age (next birthday) and should have completed the S S L C Course, preference being given to those who have taken weaving as a vocational subject in the Secondary School Course

(3) The Artisan Course This Course is intended to train up candidates in theory and practice of any of the following sections of the Textile Industry 1 Handloom Weaving, 2 Powerloom Weaving, 3 Dyeing and Printing, 4 Hosiery The course extends over a period of one year The instruction will be in Kannada

The number of candidates to be admitted in the next session to the Diploma, Certificate and Artisan Courses is limited to 12, 15 and 20, respectively

#### **SRI MEENAKSHI TECHNICAL INSTITUTE,**

Great Cotton Road, Tuticorin.

The Institute offers coaching for the City and Guilds Examinations Grades I, II and III in Electrical Engineering

#### **TECHNICAL COLLEGE, DAYALBAGH, AGRA.**

This college admits students for the Mechanical Engineering, Electrical Engineering, Automobile Engineering, Leather Working and Wiremen's Classes Candidates for the Mechanical & Electrical Engineering Classes must be at least High School finals with Science, those for the Automobile Engineering and Wiremen's Classes must hold a certificate of having passed Class VIII with Science, while candidates for the Leather Working Class must be able to read and write English or one of the vernaculars of the province viz Urdu and Hindi

Courses of study extend to four years in the case of Mechanical & Electrical Engineering Sections, two years in the case of Automobile Engineering Section, 3 years in the case of the Leather Working Section and one year in the case of Wiremen's Section Tuition fees for the Mechanical & Electrical Engineering Classes are Rs 2 p m, for the Automobile Engineering Classes Rs 5 per month, during the first year and Rs 8 per month during the second year and Rs 2 per month for the Wiremen's Class, while instruction in the Leather Working Classes is free of tuition fees Sessions begin on July 8 Last date for application, June 30 Hostel accommodation available for Mechanical and Electrical & Automobile Engineering students only The college is a centre for the examinations held by the Department of Technology, City & Guilds of the London Institute These examinations are also open to outsiders

#### **TECHNICAL SCHOOL AT KANCHARAPARA.**

Apprentices are admitted annually in July, the apprenticeship commencing on the first working day of the month Candidates must have passed the Admission Examination of the Board of Apprentice-

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**INDUSTRY BOOK DEPT., 22, R. G. Kar Road, Shambazar, Calcutta.**

ship Training and they must not be below 16 nor over 19 years of age on the 1st of July of the year in which they desire admission

The syllabus and rules for the Admission Examination may be obtained from the Secretary, Board of Apprenticeship Training, 110, Suiendra Nath Banerjee Road, Calcutta and application for permission to sit for the examination must be made to him

Each apprentice is given a stipend in addition to free board and lodging The stipend rises by annual increments from Rs 10 per mensem in the first year to Rs 30 per mensem in the 5th year, the increments being subject, in every case, to satisfactory work both in the Workshops and the School

The ordinary period of training is for 5 years in the Railway Workshops and the Technical School The classes are held during workshop hours and each apprentice has to attend his class for about 10 hours a week Alternatively, an apprentice, after 4 years' satisfactory training at Kancharapara, may go for higher training to the B E College, Sibpur, and qualify for the diploma in Mechanical and Electrical Engineering or the Associationship in Mechanical Engineering of the Board of Apprenticeship Training A number of scholarships are awarded on the results of the examination for admission to the College

There is no guaranteed employment on the completion of training

#### TIRHUT TECHNICAL INSTITUTE, MUZAFFARPUR.

Industrial Diploma Class —These classes are intended to prepare students for an active part in modern manufacture Training is given in (1) Carpenter's shop, (2) Cabinet maker's shop, (3) Painter's shop, (4) Smithy, (5) Fitting shop, (6) Machine shop, (7) Pattern shop, (8) Foundry, (9) Motor shop

The course of instruction will ordinarily cover five years Instruction is given in the vernacular and includes lectures in theory as well as practical training in the workshop

Candidates for admission must not be below the age of 15 and above 19, and preference will be given to the natives of the province and persons domiciled therein Selection is based on the result of an admission examination followed by a personal interview with the Superintendent Fifteen stipends ranging from Rs 5 to Rs 18 per month are awarded each year in this section, for each class

Leather working —The length of the course of instruction is two years Instructions, practical only, are given in Vernacular

Candidates should preferably be between the ages of 15 and 18 years and should have passed the middle vernacular or higher examination Artisans in those classes are paid stipends calculated roughly on the amount they are capable of earning and varying in value from Rs 4 to Rs 8 p m Fifteen stipends are awarded each year in this class

#### VICTORIA JUBILEE TECHNICAL INSTITUTE, King's Circle, Matunga, Bombay.

The following are the courses of instruction at the Institute —

Mechanical Engineering, Electrical Engineering, Textile Manufactures, Technical and Applied Chemistry embracing specialised courses in (a) Textile Chemistry—Dyeing, Bleaching and Sizing, (b) Foods and Drugs, (c) Technology of Oils, Fats and related products, and Sanitary Engineering and Plumbing Each course extends over four yearly sessions, and Diplomas (according to the standard attained) are awarded by the Board of the Institute to students who pass their Final Examinations

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INDUSTRY BOOK DEPT., 22, R. G. Kar Road, Shambazar, Calcutta.

Candidates for admission (who should not be less than 16 years of age) are selected on the result of the Entrance Examination which is held early in June at the Institute (and also in Calcutta, Cawnpore, Lahore, Madras, Nagpur, Patna, Cuttack and Karachi under the supervision of the respective Directors of Industries) Applications are accepted only on the prescribed forms obtainable from the Institute There are two terms per session and the fees per term are Rs 65 for bonafide Bombay Presidency (excluding Indian States) students and Rs 90 for all others

Hostel accommodation is available for 150 students in 75 rooms The rent is Rs 38-8 and Rs 44-8 per term per student for ground and first floor accommodation respectively

The average expenses of a student, inclusive of fees, boarding, lodging, books, tools, etc are about Rs 60 per month

The Institute also conducts Apprentice Classes (Short Courses) in Engineering, Textile Spinning and Weaving, Wiremen's and Electrician's work and in the Radio Service Work, for apprentices/men employed in Engineering and Railway Workshops, Cotton Mills, Electrical and Radio Trades The classes in Radio Service Work are held on three evenings a week and the rest once a week only.

#### **VISVA-BHARATI SILPA-BHAVANA, SRINIKETAN.**

The Institution imparts training to apprentices in the following crafts —

Weaving, Durr, Carpet and Ashana-making, Dyeing and Printing Textiles, Lacquer work, Leather work, Book-binding, Pottery, Carpentry, Condiment-manufacture, etc

#### **SUPPLEMENTARY LIST.**

Boys' Industrial School, Balasore, Brojo Mohan Technical Institute, Backerganj, Chemical & Toxicological Institute, Goa, Govt Industrial School, Delhi, Industrial School for Boys, Berhampore, Jamalpur Technical Institute, Jamalpur, Krishna Vilas Technical Institute, Tanjore, Khalsa Industrial School, Darya Ganj, Delhi, Maharajah Cossimbazar Polytechnic Institute, 1 & 3, Nandalal Bose, Lane, Baghbazar, Calcutta, Mahila Shilpa Bhaban, 6-1, Vidyasagar St., Calcutta, Mahila Vidya Bhaban, 1-6, Raja Dinendra St., Calcutta, Nabadurga Free Industrial School, Banamali Naskar Road, Behala, Calcutta, Nari Siksha Samity, 6-1, Vidyasagar Street, Calcutta (For ladies only), National Electric Institute, (Regd.), Mahuva, Kathiawar, Monohar Academy, 45, Olai Chandi Road, Calcutta; Royal Institute of Technology, Bellmorar, Delhi, Soap Training House, Saidpur, Rangpur, Bengal, Srimulam Technical School, Travancore, St Joseph's Industrial School & Press, Trichinopoly (Metal Casting, Turning & Fitting, Cabinet Making, Painting), Surma Valley Technical School, Sylhet, Sree Andhra Jatiya Kalashala, Masulipatam, Victoria Technical Institute, Panthon Road, 5, Egmore, Madras, Indian Bakery and Confectionery Institute, 10-1, Chakrabortia Road, Bhawanipur, Calcutta.

### **MERCANTILE MARINE.**

#### **INDIAN MERCANTILE MARINE TRAINING SHIP "DUFFERIN," Mazgaon Pier, Bombay.**

Candidates seeking admission must be British subjects, whose parents are domiciled in India, or subjectss of a Ruling Prince in India, and must be between the ages of thirteen years 8 months and sixteen on January 15th of the year of entry into the "Dufferin" They will be required to pass a qualifying examination in Arithmetic,

**Solve unemployment Problems? Read CAREERS FOR AGENTS & MIDDLEMEN. Industry Book Dept., Shambazar, Calcutta.**

Algebra, Geometry, English, History, Geography and General Knowledge conducted in English and set on the syllabus of a standard three standards below Matriculation. This examination will be held about the 1st of November simultaneously at Bombay, Calcutta, Lahore, Lucknow, Patna, Madras, Delhi, and Karachi each year.

Candidates who pass the qualifying examination will be required to come to Bombay for an interview with the Selection Board and to undergo an eye sight test for vision and colour blindness, also a medical examination. Certificate of fitness from a Government medical officer, not below the rank of an Assistant Surgeon, must accompany the candidate's application. These tests and the selection will ordinarily take place about the 8th of January.

The full course in the training ship lasts for 3 years. Each year is divided into 2 terms. First term January 10th to May 31st, Second term September 1st to December 10th.

Fees are Rs 50 plus Rs 10 for extras for each month of residence, and the cost of uniform on joining and upkeep. The fees are payable strictly in advance. The first term's fees, payable before the 10th January, amount to Rs 225, the second term's fees payable before 1st September, amount to Rs 175. These fees include board, lodging, tuition, medical attendance and games.

After completing the course Executive cadets proceed to sea as apprentices in shipping companies, the initial expenditure incurred at that time being about Rs 700 to Rs 1,000.

Engineer cadets proceed to certain approved Dockyards or Workshops as apprentices for further training prior to going to sea as Engineer Officers.

About 27 scholarships—Government and private—are available to cadets of either branch while training on board the "Dufferin," and also about 16, while serving as apprentices in the case of engineer ex-cadets. A limited number of private scholarships are also available to executive ex-cadets during their apprenticeship at sea.

The total number of entries in each year is limited to 50 cadets, 25 for the Executive Course and 25 for the Engineering Course.

The Official prospectus giving full information of training and future prospects and containing the necessary application form will be sent on receipt of As 14 by Money Order to the Captain Superintendent, I M M T S "Dufferin," Mazgaon Pier, Bombay 10.

NB—Applications must be posted so as to reach the Secretary to the Governing Body, I M M T S "Dufferin," Mazgaon Pier, Bombay, on or before the 15th September at the latest, complete with all certificates and the Qualifying Examination Fee of Rs 10.

## MISCELLANEOUS INSTITUTIONS.

### ANBIAN'S COLLEGE, ARUMUGANERI, S. I. R.

The College provides the following Special Courses designed for the busy men and women: Special English Course, Cambridge Senior, London, Matric Course, Public Speaking Course, Course in Bio-Psychology, Foreign Extension degrees and Research.

### AUTOMOBILE ENGINEERING INSTITUTE,

(Under the Management of—The Great Indian Motor Works, Ltd.),  
33, Rowland Road, Calcutta.

Courses and Fees —1, Special Automobile Engineering Course, with driving (with allowance) for 18 months Rs 300, 2 Full Course, with driving (with allowance) for one year Rs 200, 3 Full Course, (without driving) for nine months Rs 100, 4 Full Course (with driving service

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course) for three to four months Rs 100, 5 Owners License fee Rs 80; 6 Professional (Driving License Course for trained hands) Rs 50 (No special qualification is required for the course)

**CALCUTTA DENTAL COLLEGE AND HOSPITAL,**  
144, Lower Circular Road, Calcutta.

Course Four Years. Session begins on the first Monday in July. Tuition fees Rs. 300 per annum. Entrance requirements—Matriculation of an Indian University

**CITY DENTAL COLLEGE & HOSPITAL**  
241, Bowbazar Street, Calcutta.

Session commences in January and July every year Course 4 years and 2 years Special facilities for Lady Students Seats limited

**COLLEGE OF DENTISTRY,**  
15A, Beadon Street, Calcutta.

Intermediate passed candidates of Indian Universities are eligible for admission Matriculates may be admitted as special cases on application. The regular session begins on the 16th of January of each year and ends on the 1st Monday in December of the following year The Diploma of the College, e.g., "D D Sc (Cal)" (Diplomate in Dental Science, Calcutta), is conferred on those students who have completed the full course, and have passed all the required examinations Fees. Admission Fee Rs 10/-. Tuition Fee for complete course Rs 250/-. Diploma Fee Rs 25/-

**FRENCH MOTOR CAR CO., LTD. (SCHOOL OF MOTORING),**  
243-3, Lower Circular Road, Calcutta

Tuition in Motor-Car Driving and Maintenance given Scale of fees —Full course (9 months) Rs 275, full course without driving (9 months) Rs 175, driving course (2 to 3 months) Rs 100, special course in tyre vulcanising (6 months) Rs 150, Special course in Auto Electrical Repairs (6 months) Rs 175. Driving License for trained men only Light car Rs. 40

**GOSABA RURAL RECONSTRUCTION INSTITUTE,**  
Sir Daniel Hamilton's Estate, Gosaba, 24 Pargas.

Practical training in Agriculture, Dairying, Poultry Farming, Weaving, Co-operation, Book-keeping Course two years, sessions begin from July Matriculates are preferred Tuition fee Rs 4 per month, messing charges approximately Rs 6 per month

**INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE,**  
210, Bowbazar Street, Calcutta.

The Association provides facilities for postgraduate researches in the applied sciences Research fellows and scholars are given remunerations A regular course of lectures in Physics and Chemistry are delivered for the benefit of the Calcutta Medical School Meteorological reports are sent

**INDIAN COLLEGE OF NATUROPATHY,**  
100, Harrison Road, Calcutta.

The College teaches various systems of Nature Cure by Oral, Practical and Correspondence Doctor's Course —Only I Sc or I A students with Physics and Chemistry admitted Naturopathy, 3 yrs. Rs 300/-. Hydropathy, 1 year, Rs 150/-. Electropathy, 6 months, Rs 120/-. Chromo-

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pathy, 6 months, Rs 115/-, Dietotherapy, 6 months, Rs 125/-, Physiotherapy, 6 months, Rs 125/-, Massotherapy, 6 months, Rs 125/-, There is a Licentiate Course open to Matriculates Fees from Rs 52/- to Rs 66/-

### INDIAN INSTITUTE OF SCIENCE, BANGALORE.

The laboratories of the Institute provide facilities for postgraduate work in (1) Physics, (2) Applied Chemistry, (3) General Chemistry, (4) Organic Chemistry, (5) Biochemistry, (6) Electrical Technology, (7) Cosmic Ray Research Unit and (8) Aeronautical Engineering. The Departments are well equipped. The charges in the messes vary from about Rs 20 to Rs 30 per mensem excluding the fee of Rs 10 charged as room rent per month and service.

The Institute awards (1) Studentships of the value of Rs 125 per month to deserving students, for a period of one year at a time, the total period not exceeding five years. The minimum qualifications should be in all cases a Ph.D. or a D.Sc. degree or other equivalent qualification. (2) Research scholarships of the value of Rs 60 per month will be awarded to students whose minimum qualifications should be an M.Sc. degree by research or a first class M.A. or M.Sc. or Associateship of the Institute or equivalent qualification or a certificate in the case of Electrical Technology Department. (3) Research stipends of the value of Rs 40 per month are awarded to students whose minimum qualifications should be a first class B.Sc., or a B.Sc. (Hons.), first or second class of an Indian University.

Department of Physics—As the department is organised solely for research work, in physics, admission will be restricted to students having special qualifications, the minimum ordinarily required being the B.A. (Hons.), or B.Sc. (Hons.) or M.Sc. degree with distinction in Physics or Mathematics.

Department of Pure and Applied Chemistry—It is intended primarily for research work in the different branches of chemistry. Students who wish to work in the laboratories will be required to show that they possess a sound knowledge of the science before they are admitted. Facilities will be given to students who wish to study the analysis of minerals, oils, fats, etc., to those who wish to make an examination of plant extracts, essential oils, or fixed oils, and generally to those who wish to take up the study of branches of pure and applied chemistry allied to physical, inorganic or organic chemistry.

Department of Biochemistry—Preference will ordinarily be given to those who have taken either a high Honour degree in pure chemistry, or B.Sc. First Class or M.Sc. degree by research in an allied subject. Courses of advanced lectures in general biochemistry and practical classes will be held from time to time.

The Department of Electrical Technology provides advanced courses of instruction in the subjects leading to (a) the Certificate of Proficiency in Electrical Technology and (b) the Certificate of Proficiency in Electrical Commercial Engineering, and (2) affords to students who have undergone a sufficiently extensive course of training, facilities for carrying out original investigations. Applicants for admission to the Certificate courses must either be—(a) Graduates in science with physics and mathematics as their subjects or Graduates in mechanical engineering, or Graduates in electrical engineering, in which cases the courses will cover 3 years, 2 years and 1 year, respectively.

A Cosmic Ray Research Unit for work in Experimental and Theoretical Physics was started in the beginning of the session 1942-43. The

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minimum qualifications for admission to this Unit are B.A. (Hons.) or B.Sc. (Hons.) or M.Sc. degree with distinction in Physics and Mathematics

A Department of Aeronautical Engineering was also started during the session 1942-43. Applicants for admission to this course should be graduates in Engineering (Electrical or Mechanical), or holders of Proficiency in Electrical Technology of the Indian Institute of Science. The course extends over 16 months.

The Central Workshop provides instruction in Workshop practice to all students of the Institute including especially those of the Department of Electrical Technology.

Classes in French and German are held for students with a view to assisting them to attain such a knowledge of these languages as will enable them to read technical journals.

### **INDIAN OPTICAL INSTITUTE & REFRACTION HOSPITAL, 7-1C, Lindsay Street, Flat B2, Calcutta.**

The Institute imparts instructions in Applied Optics with a view to qualify students as (A) Optometrists & Opticians (B) Optical Mechanics. Minimum qualification for (A) Course is Matriculation, for (B) Course candidates should have an elementary knowledge of English and Mathematics.

Classes are held daily in the evening. The course extends over a period of 10 months and the session begins from the middle of July every year.

**Fees.**—(A) Course —Admission fees Rs 10, Tuition fees Rs 200, for the whole course to be paid in advance. Fees of extra course Rs 25, (for candidates not having preliminary knowledge of Light). Punkha fees Rs 3, Examination fees Rs 20, Diploma fees Rs 25.

(B) Course —Admission fees Rs 10, Tuition fees Rs 100, payable in advance, Examination fees Rs 10. Punkha fees Rs 3.

### **NAIR HOSPITAL DENTAL COLLEGE, Near Central Station, Lamington Road, Bombay.**

Course of instruction for the Diploma of I.D.Sc. Bombay, covers four years. Students wishing to go for I.D.Sc. (Bombay) Examination must have passed at least the Matriculation Examination.

Candidates for admission must submit application to the Dean before 15th June.

### **SAROJ NALINI INDUSTRIAL SCHOOL FOR WOMEN, 23-1, Ballygunge Station Road, Calcutta (Estd 1925).**

Subjects taught in this adult Bhadrolok Women's School —(1) Sewing and Cutting, (2) Embroidery and Drawing, (3) Carpet and Durray Weaving, (4) Plain and Fancy Cotton Weaving, (5) Cotton and Wool Dyeing, (6) Jaipur Ornamental Brass Works, (7) Knitting Socks, Scarves, Mufflers and Children's Cap by machines, (8) Toy Making, (9) Leather Embossing, (10) Fret Work, (11) Music and (12) General Education in English and Bengali upto Class VII standard.

Girls of sixteen and above are admitted in the School Industrial Section is free but there is a nominal fee for literary classes and a bus fee of Rs 4 to Rs 5 per month is charged according to the distance. 5 per cent of the students are granted free studentship. Literary training is compulsory. Charges for the attached Boarding House (for Hindus only) —Seat rent Rs 4, Messing Rs 7 per month.

There is also a Teachers' Junior Training Class for women.

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Up-to-date methods of production, preservation and marketing of fruits are given in **ALL ABOUT FRUITS**. Rs. 2/8. Industry Book Dept., Cal.

**SCHOOL OF CHEMICAL TECHNOLOGY,****P-154, Lake Road, P O Rashbehary Avenue, Calcutta.**

Special courses of instruction by post designed to train individuals to become useful members of society and to develop scientific cottage industries in pharmaceutical and technological fields

**SCHOOL OF HANDICRAFTS (Govt),****Pusa, Darbhanga.**

Subjects taught Weaving and dyeing (2 years' course), Tailoring (2 years' course), Carpentry and Toy Making (2 years' course), Brass and Bellmetal Works (2 years' course), Eri rearing and Spinning (6 months' course), Cane Basketry and Rope Making (6 months' course) Candidates for the first four courses should have passed Middle English Examination Applications for admission to be made to the Supdt of the School by 1st December Free hostel accommodation to out-students

**SCHOOL OF MOTORING,****12-1, Government Place East, Calcutta.**

Provides course for motor engineering and driving Monthly allowances to candidates in special engineering course

**STRI ZARTHOSTI MANDAL & SIR RATAN TATA  
INDUSTRIAL INSTITUTE,****Hughes Road, Bombay.**

The Institute imparts training in small-scale industries and crafts to enable Parsee women to earn their livelihood There are nine departments 1 Cooking and Fancy Confectionery 2 Chocolates, Butter and Jam 3 Hand-Embroidery 4 Machine-Embroidery 5 Sewing 6 Hand-weaving 7 Laundry 8 Recolouring and Cloth-Printing 9 Hand-Painted Cards

**USHAGRAM EDUCATIONAL COLONY, USHAGRAM, ASANSOL.**

For Boys Along with the Matriculation course, each boy must take one vocational subject, choosing from among the following Carpentry, weaving, agriculture, tailoring, printing, book-binding, art, including music There is also provision for Vocational training apart from Matriculation classes Fees —Rs 4 in the Matriculation Class to Rs 2 in Class III Two hostels are maintained

**VICTORIA TAILORING AND CUTTING COLLEGE,****Budhwar Chowk, Poona No. 2. Branches: Rajkot (Kathiawar)  
and Ahmedabad**

Course of study Diploma course Cutting fees Rs 100 only and tailoring fee at Rs 5, a month Duration of cutting 3 months and cutting and tailoring 9 months Tuitions are given in one or more courses Fees are accepted on instalments

The Institution offers individual instructions in scientific cutting and tailoring and undertakes to secure a Diploma of Merit, First class or a First class standard London, for its students

Government examinations are held twice a year Five scholarships are given every year to the students of backward communities

**SUPPLEMENTARY LIST.**

Banton's Tailoring College, Agra, Calcutta Commercial Institute, College Street Market, Calcutta (Tailoring), Calcutta School of Music,

Up-to-date methods of production, preservation and marketing of fruits are given in **ALL ABOUT FRUITS**, Rs. 2/8, Industry Book Dept, Cal

43, Park Mansions, Calcutta, East Bengal Tailoring Institute, 206, Cornwallis Street, Calcutta, Embroidery School, Calcutt, Imperial College of Telegraphy & Commerce, 144, College Street, Calcutta, Kala Mandir, Vile Parle, Bombay, Modern Scientific Institute, Gowalmandi, Lahore, New Shorthand & Typewriting Institute, No 75 U F The Mall, Simla; Remington Fonetik School, Nos 3 & 4 The Mall, Simla

## ORDNANCE FACTORIES.

### GUN AND SHELL FACTORY, COSSIPUR, CALCUTTA.

Apprentices receive training in Mechanical Engineering trades Recruitment is through the Federal Public Services Commission Candidates must not exceed 19 years in age and must have passed the Intermediate Examination in Science or Engineering of a University or Board approved by the Governor General in Council or have obtained the Cambridge School "A" certificate of the Higher Diploma of the Mayo College, Ajmer Period of training extends over 5 years, combined with an approved course of theoretical instruction at the Calcutta Technical School Apprentices are required to live in Government Hostel

In addition, the Boy Artisan Training Scheme provides a five-years' course of training for selected boys between the ages of 15 and 17 years This course is intended to produce craftsmen, capable, ultimately, to fill junior supervisory posts in Mechanical Engineering Workshops The practical training is supplemented by special course of education in the Factory School

### INDIAN ORDNANCE FACTORIES,

Rifle Factory, Ishapore, Bengal.

Employment of Apprentices during the present emergency has been suspended

### INDIAN ORDNANCE FACTORIES,

Cordite Factory, Aruvankadu, Nilgiris.

The training of apprentices has been suspended during the period of the present emergency

In substitution the Government of India have approved the introduction of special courses for the training of supervisors and artisans

## RADIO TRAINING INSTITUTIONS.

### ABDULLA FAZALBHOY INSTITUTE, St. Xavier's College, Bombay.

This Institute conducts the following Training Courses —

Preparatory Courses Minimum Admission Standard Matric Standard in Science, Mathematics & English Matric Certificate not essential Duration One Term of 5 months Fees per term, Rs 135

Radio Service Course Minimum Admission Standard Inter Science Standard in Physics and Mathematics, or Preparatory Course Certificate Duration One Term Fees per Term Rs 135

Wireless Telegraphy Course Minimum Admission Standard Matric Standard in Science, Mathematics and English Matric Certificate not essential Duration Two Terms Fees per Term Rs 135

Electrical Wiring Course Minimum Admission Standard as in Wireless Telegraphy course Duration Two Terms Fees per Term Rs 30

**ALL ABOUT FRUITS**—A most handy guide to fruit culture and preservation. Price Rs. 2/8. Industry Book Dept., Shambazar, Calcutta.

Radio Engineering Course Minimum Admission Standard B Sc in Physics and Mathematics or equivalent degree Duration Four Terms Fees per Term Rs 135

Cinema Projection Course Minimum Admission Standard Matric Standard in Science, Mathematics and English Matric Certificate not essential Duration One Term Fees per Term Rs 135

Photography Course Minimum Admission Standard As in Cinema Projection Duration One Term Fees per Term Rs 135

Cine-Photography Course Minimum Admission Standard As in Cinema Projection Duration Four Terms Fees per Term Rs 135

Sound Recording Course Minimum Admission Standard I Sc Standard in Physics or Preparatory Course Certificate Duration Three Terms Fees per Term Rs 135

### CHICAGO RADIO INSTITUTE,

129, Esplanade Road, Fort, Bombay.

This Institute gives training in radio engineering both theoretical and practical The whole course including practical covers approximately six months Admission is made twice a year in April and June Classes are held from 9 a m to 11 a m Practical training is given in the workshop for about 2 hours every day, in small batches

Registration Fee Rs 5 with application Tuition Fee Rs 75 for theory only, including examination fee Tuition fee Rs 125 for both theory and practice, including examination fee Re examination Fee Rs 25

Those students who appear for the City and Guilds Examination and the Associate Membership examination of the Institute of Radio Engineers, London get additional lectures free of cost

### E M F. TECHNOLOGICAL INSTITUTE,

The course of study includes Radio Communication, Wireless Telegraphy and Electrical Engineering

Radio Engineering Course Knowledge of English sufficient to follow lectures is essential New session starts in the first week of January, April, May, July, October and November Course 4 months, fees Rs 75

Radio Communication Course—Minimum qualification for admission is that the candidate must have read upto the standard of the Matriculation Examination of the Bombay University or equivalent thereof Non-Matrics are also admitted New sessions begin in the first week of January April, May, July, October and November Course 6 months, fees Rs 100

Electrical Communication (A) Intermediate This is equivalent to the course provided for the Department of Industries (Bombay) Certificate in Radio Communication and may be passed on completion of the aforesaid course The Examination Fee is Rs 6 only (B) The Final Grade Examination is held only in the first week of May each year Duration of studies four months, additional fees for this course Rs 75, examination fee Rs 8

Radio Service Course —Admission given to those who have learnt the theory of Radio Communication Monthly fee Rs 21, a deposit fee Rs 30 to cover breakages etc

Wireless Operator's Course —Six months course Fees Rs 135

Electrical Engineering Course —Six months course, total fees Rs 100

**ALL ABOUT FRUITS**—A most handy guide to fruit culture and preservation Price Rs. 2/8. Industry Book Dept., Shambazar, Calcutta.

## 656 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Wreman's Course —(a) 4 months' course, fees Rs 40, (b) 6 months' course, fees Rs 60

### **INSTITUTE OF RADIO TECHNOLOGY,**

**Jestharam Baug, Bombay, No. 14.**

The Institute offers training for the following courses:—

Electrical & Radio Engineering, Radio Servicing, Radio Engineering and Servicing combined, A M I E E & Wireless Operators' Courses  
Fees for Radio Engineering and Servicing combined Rs 150 (1 year)  
Radio Servicing Rs 100-8 (6 months), A M I E E Rs 280 (2 years)  
and Wireless Operators' Course Rs 110 (9 months)

Coaching is given for City and Guilds of London Institute examinations and Bombay Government examinations Hostel attached

### **RADIO ELECTRIC INSTITUTE,**

**Lamington Chambers, Bombay 4.**

This Institute is recognised by the Dept of Industries of the Govt of Bombay for Examination and Certificate purposes and specialises in intensive short period courses preparatory to .

- (1) Govt of Bombay Examination in Radio Servicing (1 year)
- (2) Govt of India's Examination for 1st & 2nd Class Certificates in Wireless Telegraphy (1 year)
- (3) City & Guild's London Institute examination in Radio Communication & Electrical Engineering practice (duration 1 year & 2 years respectively)
- (4) I E E (London) examinations for the A M I E E (London) etc (2 years)
- (5) Diploma & Certificate examinations in Radio Mechanics, Radio Engineering, Electrical Engineering held by the Institute

The average fees are Rs 100 per head per term Hostel charges vary from Rs 90 to Rs 70 per term

### **SUPPLEMENTARY LIST.**

Radio College, 191-1, Bow Bazar Street, Calcutta

Eastern Institute of Technology, 58-B, Rash Behari Avenue, Calcutta.

George Telegraphy and Training Institute, 136, Bow Bazar Street, Calcutta

College of Wireless and Commerce, 212, Bow Bazar Street, Calcutta

## **TANNING INSTITUTIONS.**

### **BENGAL TANNING INSTITUTE, PAGLADANGA, CALCUTTA.**

The Institute imparts training in tanning, boot and shoe and leather-goods manufacture The tanning course is one of two years, one year at the Chemical Laboratory and the other at the Demonstration Tannery Theoretical lectures are delivered on (1) Principles and Methods of tanning (2) Applied Chemistry of Leather manufacture and (3) General Chemistry Science graduates and candidates who have passed the I Sc examination are usually eligible for admission In special cases matriculates having connection with the leather trade may also be admitted There is accommodation for 24 students Of these 24 seats sixteen are for Bengal and eight for Bihar candidates

The course for boot and shoe and leather goods manufacture is of one year The Boot and Shoe classes are held at 110, Surendra Nath

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Valuable directions for construction of aerials and receivers are explained in **RADIO RECEPTION IN THEORY & PRACTICE.** Price Rs. 2/8.

Banerjee Road, the premises of the Calcutta Technical School Matriculates and even non-matriculates are admitted to this course There is accommodation for 24 students all from Bengal

The sessions for both tanning and shoe making courses begin from the 1st week of August every year A tuition fee of Rs 6 per month is charged for the Boot and Shoe and Leather Goods Making course

University certificate course in Tanning extends over 3 years and the minimum qualification for admission is that the candidates should have passed the ISc examination of the Calcutta or any other recognised University Tuition fee for this course is Rs 8 per month

Two stipends of Rs 30 p m, each are awarded to the students of the University certificate course and two of Rs 20 p m, each to the students of the apprenticeship course, on the results of entrance examination of the institute and tenable for one year only unless the students get them by competition for each successive year One stipend of Rs 30 and another of Rs 20 will be for Mohamedan candidates and the other two for non-Mohamedans

#### GOVERNMENT LEATHER WORKING SCHOOL, CAWNPORE.

Imparts training in manufacture of boots and leather goods Course 2 years

The applicants for admission should have studied at least up to the Lower Primary Standard Session commences from 1st July

No tuition fee is charged from the bonafide students of United Provinces Non-United Provinces students are to pay Rs 240 per annum for all 12 months of the year

(1) Hostel fee Re 1 per mensem, (2) Light fee from annas 4 to annas 6 per mensem, (3) Caution Money Rs 5 A student of modest means usually requires from Rs 9 to Rs 12 per mensem to maintain himself here

#### GOVERNMENT LEATHER WORKING SCHOOL, MEERUT.

Imparts training in the manufacture of boots and shoes and miscellaneous goods such as suit case, handbag and holdall, etc Admission takes place in July every year Educational qualification required for admission is that the boy should have studied at least upto lower primary standard Course is of two years No tuition fee is charged from U P students Rs 20 p m as tuition fee is charged from non-U P students Rs 5 as caution money, As 4 p m as games fee and Re 1 p m as hostel fee is charged The expenses of an outside student range from Rs 8 to Rs 10 p m

#### GOVERNMENT TANNING SCHOOL, FATEHPORE

The Institute trains village tanners in the modern methods of tanning, curing, finishing Application for admission should be made to the Head Master of the school not later than June 25 each year The session commences each year on July 1 No fees will be charged from residents of the United Provinces The full cost of tanning i.e Rs 20 per mensem will be charged from students who are deputed by other provincial Governments Candidates for admission should be between 16 and 25 years of age Applicants should be able to follow the instruction given in the school, and to take down notes The course will extend over a period of two years Practical work in the tannery and finishing departments is arranged No boarding house is attached to the school Monthly expenses will be Rs 15

Valuable directions for construction of aerials and receivers are explained in **RADIO RECEPTION IN THEORY & PRACTICE**. Price Rs. 2/8.

**LEATHER TRADES INSTITUTE, MADRAS**

The Institute is a centre for the provision of general advice, research and practical guidance to tanners and for the conduct of analysis of bark, water, effluent, chrome, lime liquor, etc., and of analysis of skins and hides intended for export with a view to detecting adulteration by the use of epsom salts, etc.

A leather working class is being conducted where boys, mainly of Chamar community, are given a two years' course in the manufacture of leather and leather articles as a cottage industry.

**LEATHER WORKING SCHOOL, DAYALBAGH (Agra).**

The school provides training, both theoretical and practical, in the art of Boot and Shoe-making as well as other Leather Goods on modern lines. The school is attached to an up-to-date and fully equipped Leather Goods Factory, Dayalbagh. Course 3 years.

The session of the school begins on 15th July every year.

Candidates, seeking admission to the school must be of robust health and should possess good knowledge of reading, writing and arithmetic. Their age should not ordinarily exceed 20 years or be less than 14 years. Applications for admission should be made by the 30th June.

At present, no tuition fee is charged from the students. Candidates who are admitted must at once deposit Rs 5 as caution money.

**MUNICIPAL LEATHER WORKING SCHOOL,  
22, Canning Road, Allahabad**

Applicants for admission should have studied at least upto Upper Primary standard, and should be between 15 & 25 years of age. No fees are charged and admission is made in July. A number of scholarships are also given to deserving students. The course extends over two years.

A Commercial Section is also attached for the benefit of ex-students and local shoe makers to improve on the indigenous art.

A show-room is also attached to the school for the sale of manufactured articles to impart practical training in the art of salesmanship. Orders are also booked from far and abroad and executed promptly at a very reasonable price.

**VETERINARY & POULTRY INSTITUTIONS.****BENGAL VETERINARY COLLEGE,  
Belgachia Road, Calcutta.**

Each candidate for admission as a student is required to produce a certificate (i) of age, (ii) of good morals, (iii) of health from a Civil Surgeon, or to undergo an examination of health by the Medical Officer of the College, (iv) that he has passed the Matriculation Examination of the Calcutta or other University or an equivalent examination. I Sc and B Sc passed candidates are given preference.

Candidates shall be between the ages of 18 and 26 years. They must not be less than 5 feet 4 inches in height and 30 inches round the chest (unexpanded).

Each student shall be required to pay the following fees.—Entrance fee Rs 10, Riding class fee Rs 6, Tuition fee for Bengali private students Rs 6 p m, Tuition fee for non-Bengali private students Rs 12/- p m. Caution money Rs 7/-.

The course of study for the diploma of qualification will extend over three years. Each session will comprise nine teaching months.

For detailed methods of construction of radio sets consult **RADIO RECEPTION IN THEORY & PRACTICE** Rs. 2/8. Industry Book Dept.

Residing in College hostel compulsory

Private students may attend the riding class on payment of the following fees—Casual students—Rs 10/- per month, Course of three months—Rs 25/- Certificate of ability to ride Rs 10/- extra

A regular course of training of Farriers and Dressers is established in the College. The courses in each class will last for four months, viz, a practical course for three months and a theoretical for one month, which will ordinarily last from the month of July to October and from November to February of each session. Fees. Rs 20 per pupil from a class of six or more men, Rs 30/- per pupil for a class of five men or under payable in advance.

Veterinary Dispensing Course is also established in the College. The course is for four months from the first day of any month in the year. Fee Rs 40/- per pupil payable in advance.

A short course of training in Poultry Husbandry and Poultry Diseases for a period of four months has been provisionally established in the College pending final approval of the Government of Bengal. Fee Rs 40/- per pupil payable in advance. The course will ordinarily last from the month of July to October and from November to February each year.

#### **BOMBAY VETERINARY COLLEGE, Parel, Bombay**

The course of study which extends over three years is essentially a practical one and not theoretical.

College students deputed by Indian States and other Govts Rs 350.

The text books required cost approximately Rs 125 per annum. A sum of Rs 25 (at least) per mensem should be provided for the maintenance of a student while at the College.

Candidates for admission to the College shall be over sixteen years and ordinarily under thirty years of age.

All candidates must produce evidence of having passed the I.Sc. (B. Group) examination of Bombay University or equivalent qualifications of other University, recognised by Bombay University.

The fees for a student at this College are summarised below—

	Students Bombay	Students Non-Bombay
College fee	80	160
Hostel fee	30	90
Gymkhana fee	12	12
Examination fee	20	20
TOTAL	142	282

Candidates shall be admitted to the College at the commencement of the first session only which begins on June 15.

Casual students may be admitted at any time.

#### **GOVT. POULTRY FARM, GURDASPUR, PUNJAB**

A fee of Rs 5 from the residents of the Punjab is charged (Rs 10 in the case of non-residents of the Punjab). Students make their own arrangements for board and lodging in Gurdaspur. A maximum number of 21 students is accepted for the class.

The classes are confined to residents of the Punjab and knowledge of English, Urdu or Gurmukhi is the only other qualification required.

#### **IMPERIAL DAIRY INSTITUTE, BANGALORE**

There are three courses of training given.—

(1) The Indian Dairy Diploma course (2 years) gives comprehensive training in the theory and practice of dairy husbandry. Students

**For detailed methods of construction of radio sets, consult RADIO RECEPTION IN THEORY & PRACTICE. Rs. 2/8. Industry Book Dept.**



must be over 17 years of age and minimum educational qualification is S S L C or its equivalent examination. Tuition fee is Rs. 15 monthly. The course commences in October or November in alternate years.

(2) The Post-graduate course (1 year & 3 months) gives advanced training in dairy research. Only agricultural and veterinary graduates or officers deputed from Provincial Departments and Indian Dairy Diploma holders are eligible. Tuition fee Rs. 25 monthly. The course commences in January of each year.

(3) Short courses of practical training in the different branches of dairy farming can be taken for any desired period (one to six months) and at any time of the year. These courses are intended for men in the trade or officers deputed by Provincial Departments, who are desirous of obtaining up-to-date knowledge in the dairy farming practice. The tuition fee is Rs. 15 monthly.

Hostel accommodation is available for the first course. Other students should make their own arrangements for lodging, boarding. The average monthly expenses including tuition fee may come to about Rs. 50 for the Post-graduate course and Rs. 40 for other two courses excluding cost of accommodation in case of short course students.

#### **MADRAS VETERINARY COLLEGE, VEPERY, MADRAS.**

The College affords theoretical and practical instruction for obtaining the G M V C Diploma of the College and the B V Sc Degree of the Madras University. The applicant for admission must not be under 17 years of age or over 22 years of age. Applications for admission should be made not later than the 5th June, 1943.

G M V C Diploma course—Qualification for admission—A pass in the Intermediate Examination in Arts and Science of the Madras University taking either Chemistry or Natural Science as one of the optional subjects or an examination accepted as equivalent thereto by the Syndicate of the Madras University. For Muslims and Scheduled classes. A pass in the S S L C Public Examination taking Chemistry as the optional subject. The course of study for the Diploma extends over four years.

A tuition fee of Rs. 90 per annum shall be levied from the students coming from the Madras Presidency and Coorg. All others including those from the areas transferred to Orissa will be required to pay a tuition fee of Rs. 400 per annum. A sum of Rs. 3 for the first and second terms and Rs. 2 for the third term towards sports fees, Rs. 12 for medical fee and Re. 1 for college calendar are payable by each student. The tuition fees are payable in advance and must be paid before enrolment.

Hostel attached to the College. Room rent Rs. 3 per mensem. Boarding charges Rs. 20 to Rs. 30 per mensem.

B. V. Sc. Degree Course—Candidates seeking admission to this course should satisfy the conditions laid down for the Diploma course of the College and have passed, in addition, at least the Intermediate Examination in Arts and Science. The course will extend over a period of five academic years, (ordinarily consecutive).

**Fees.**—Tuition fees will be levied from the students of the Degree course at the following rates—For students coming from Madras Presidency and Coorg Rs. 120 each for one year. For students coming from outside Madras Presidency Rs. 430, for one year.

#### **PUNJAB VETERINARY COLLEGE, LAHORE.**

Instruction is provided in veterinary science and a diploma (L V P, Punjab) is awarded to those students who pass the final

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examination Course is of four years The medium of instruction is English

There is a hostel for students attached to the College

Applicants for admission must have passed the Intermediate examination in the Arts or Science Faculty of an Indian University, or an equivalent test Candidates who have passed the Matriculation examination in the first division only will also be considered Applications must be submitted on a form obtainable from the Principal's office, before 1st September

The following fees must be paid in advance at the beginning of each session —Tuition fee, per session Rs 120, Athletic Club subscription, per session Rs 12, Library fee Rs 10, Breakage fee, per session Rs 12 The fees for the annual and supplementary examinations are Rs. 20 each They must be paid before appearance at the examinations.

Refresher courses for Veterinary graduates may be taken in any subject included in the curriculum, at a cost of Rs 50 per subject for one session of nine months, subject to a minimum of Rs 150

Punjab students, who undergo the course privately at their own expense will be charged Rs 20 per subject, but the minimum fee will be Rs 60

A limited number of men are trained in shoeing Application for admission to this class should be made to the Principal The courses in hot and cold shoeing begin on 16th September. The former lasts for nine months while the latter for six months only

A dressers' class is held during the summer vacation from 16th June to 15th September each year in the event of there being sufficient candidates The tuition fee charged is Rs 20 per head A course of training for Veterinary Assistants and Veterinary Assistant Surgeons is held in connection with Rinderpest Goat Virus Vaccination for a period not exceeding 10 days each winter A fee of Rs 10 (rupees ten) each is levied from those attending this course from outside the Punjab

#### **UNITED PROVINCES POULTRY ASSOCIATION, Dilkhusha, Cantt., Lucknow.**

Courses of training include (1) "Popular Practical Course," duration three months commencing from 15th August, 15th November, and 15th February Candidates should have working knowledge of Hindustani and English (2) Diploma Course, duration one academic year commencing from 15th August and terminating on 14th May. Qualifications, High School or equivalent examination with knowledge of elementary Science

Fees for Popular Course Rs 25/-

Diploma Course Rs 100/-

Students belonging to other provinces than U P will be charged 50 % enhanced fees There is an attached hostel Every resident student shall have to pay Rs 4/- per month as hostel fees Students have to make their own messing arrangement

#### **SUPPLEMENTARY LIST**

Veterinary College, Patna

### **WEAVING & DYEING INSTITUTIONS.**

#### **BENGAL SILK TECHNOLOGICAL INSTITUTE, Berhampore (Bengal).**

The Institute offers three courses of instructions, viz ; Diploma course extending to three years, Artisan course extending to two years and short course extending to six months Matriculates or those who

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have been trained in one of the technical schools are eligible for admission to the Diploma course. The session commences from the 2nd. July and intending students should apply for on 15th June. Stipends are available. No schooling fees are charged. A diploma course student is required to deposit a caution money of Rs 5/- only.

#### **BENGAL TEXTILE INSTITUTE, Serampore.**

Courses of training—1 Men's Section—(1) Higher course—Extends over three years. Intended for young men who have passed the Matriculation Examination or its equivalent. Session begins in the third week of July. (2) Artisan course—One year's course. Meant for those who intend to work as handloom weavers. Three sessions per year commencing in the first week of April, August and December. (3) Operatives Training course—Six-months course. Intended for young men desirous of qualifying as weavers in cotton mills. Two sessions per year commencing in the first week of January and July. II Women's Section—Extends over two years. Classes are held in separate premises under the supervision of a resident Lady Superintendent. Two sessions per year commencing in the first week of January and July. Scholarships awarded to meritorious students. Four hostels. Monthly expenses for a student range from Rs 15 to Rs. 25. No tuition fee is charged.

#### **GOVERNMENT CENTRAL WEAVING INSTITUTE, BENARES.**

Session commences on 1st July and ends on 19th May each year. Applications for admission should be made by the 20th June.

The institute comprises of the following classes—

(a) Artisan Course—Artisan Class—One year's course, Junior Class—One year's course, Advanced Class—One year's course.

(b) Non-Artisan Course—Senior Class—Three years' course.

Admission qualifications—Artisan Class—Preference will be given to weavers hereditary or by profession. Junior Class—Students who have passed Artisan Class examination from this institute or any of the weaving schools recognised by the Department of Industries, United Provinces. Advanced Class—Students who have passed the Junior Class examination from this Institute or any weaving school recognised by the Department of Industries, United Provinces, having equivalent standard. Senior Class—School Leaving or Matric passed.

A limited number of scholarships and stipends are awarded.

Students from other provinces besides United Provinces shall have to pay a fee of Rs 30 per mensem payable in advance for 12 months in the year.

Boarding with 36 seats is provided for outstation students only and a fee of Re 1 per mensem is charged from each boarder.

#### **GOVERNMENT CENTRAL TEXTILE INSTITUTE, CAWNPORE.**

The Institute offers systematic training in (1) General Textile Technology (Carding, Spinning and Power loom Weaving) section, and (2) Chemical Technology of Textiles (Dyeing, Bleaching, Printing, and Finishing) section.

The General Textile Technology Section has (a) Diploma Course in either (i) Cotton Carding and Spinning or (ii) Textile manufacture (Power loom Weaving) with elementary training in Hand loom Weaving. Its duration is three years at the Institution and one year's apprenticeship in mills, (b) Part-time Apprentice Course of two years, (c) Part-time Artisan Course for one term of five months.

The Chemical Technology of Textiles (Dyeing, Bleaching, Printing and Finishing) section has (a) Diploma Course for three years at the Institute and one year's apprenticeship in mills or laboratories, (b)

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**Artisan Course of two years** In addition to the above courses of instruction, the Peripatetic and Tuition Classes Dyeing and Printing attached to this section impart instruction to the cottage workers of the province at their houses. Short courses for specific problems are also arranged.

The season commences from 1st July and ends on 19th May.

Candidates seeking admission to the diploma courses are required to have passed the High School Examination of the Intermediate Board of United Provinces or any other equivalent examination.

Candidates for admission to the Part-time Apprentice Course, Carding, Spinning and Weaving should (i) have studied up to the 10th standard and have worked in a mill department for 300 days (ii) have attained the age of 16 years, and (iii) be actively engaged in the mills in either Carding, Spinning, Weaving or Engineering departments. A card of attendance at mill and Institute will be maintained by the students for qualifying to appear in the examination.

Candidates for admission to the Artisan Course—(Dyeing and Printing, etc.)—should be (i) able to read and write mother tongues of United Provinces and (ii) preferably engaged or connected with the Dyeing or Printing industry. Candidates possessing the minimum educational qualification and having worked in mills for 12 months as operatives will be given preference for admission to the Institute.

No fees are charged from bonafide permanent residents of the United Provinces. A fee of Rs 360 per annum payable in 12 monthly instalments of Rs 30 each is charged from students of Rampur, Tehri, Garhwal-Benares States and non-United Provinces students.

Limited hostel accommodation is available. A monthly rent of Re 1 is charged for boarder. The monthly expenses of a student residing in hostel are estimated between Rs 20 and Rs 25.

A number of stipends and scholarships are available for bonafide United Provinces students.

#### GOVERNMENT CENTRAL WEAVING INSTITUTE, AMRITSAR

The Institute has three classes—(1) Class A—(Higher Class), (2) Class B—(Artisan Class) and Class C—Kimkhab Class.

Candidates who have passed the Matriculation Examination of the Punjab University or an equivalent examination of any other recognised University are admitted to Class A. The course of instruction extends to two years.

Class B is designed to benefit the weaver community only. Both adult weavers and their sons are admitted. Course of instruction extends to a period of one year and the training is given in vernacular.

Class C has been started to benefit the weavers in silk weaving. Weavers and artisans are admitted to this class. There are 2 sessions (1) from October to February and (2) from March to July.

Admission to all the classes takes place on the 1st October. Application for admission to Class A should reach the Textile Master by the 15th July. Application for admission to class B are also received in July, and for class C in July and February.

Hostel accommodation is provided at a nominal rent of As 4 per month to students who come from outstations. The average expenses at the hostel comes to Rs 10 a month.

Tuition fees per mensem—Class A Re 1, Classes B & C As 4, and Casual students Rs 2.

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**GOVERNMENT COTTAGE INDUSTRIES INSTITUTE,  
Gulzarbagh, Patna.**

The Institute comprises the following departments —(1) Spinning on charkha, cotton weaving on handlooms, (2) Cotton and wool dyeing and calico printing, (3) Knitting of socks, hose, neckties, scarves, pull-overs etc, (4) Carpet weaving, (5) Durrie weaving, (6) Weaving of newai, tape, lamp wicks, net bags etc (7) Making of lacquered toys, (8) Making of toys of wood, (9) Making cardboard toys, (10) Glazed earthen ware and pottery manufacture, (11) Tailoring, (12) Cane furniture and basket manufacture, (13) Paper making by hand (14) Picture Frame

12 girls, not more than two in each section, are also admitted for training, and are awarded stipends, every year. Separate hostel is provided for girl students.

Candidates who have completed their primary education in any vernacular are admitted. In the case of students for the weaving, dyeing, pottery and tailoring sections and durri, the educational qualifications required is of the middle English Standard.

Students belonging to Bihar have not to pay fees. In the case of the student sent by other provinces and States the Director of Industries may charge the cost of their training.

The session commences from the 2nd of January every year. The course of training in weaving, dyeing and tailoring extends over two years while that in other industries over one year. Applications to be made before 1st week of December.

**GOVERNMENT WEAVING & CLOTH PRINTING SCHOOL,  
Bulandshahr, U. P.**

The school has two sections (1) Weaving, (2) Dyeing and Cloth Printing.

The course in Weaving is of one year's duration and in the Dyeing and Printing of two years. The medium of instruction is vernacular.

Applications for admission should be made on the prescribed form and should reach the head master not later than 20th June each year. The application for admission must be accompanied with (a) A certificate of good character (b) School certificate showing qualifications, (c) A deposit of Rs 3 as caution money, (d) A certificate of residence in the United Provinces.

Session commences each year from 1st July.

Qualification for admission—(1) Weaving Class—Applicants other than artisans must know sufficient Hindi or Urdu to follow the instructions imparted. (2) Dyeing and Cloth Printing Class—Students other than artisans must have read up to sixth standard or vernacular or middle passed. Candidates for admission should not ordinarily be below sixteen years of age.

Fees—No tuition fees from bonafide residents of United Provinces. Non-United Provinces students have to pay Rs 240 per annum or if paid monthly Rs 20 per month payable for all the 12 months of the year. Game fee annas four per month from all students.

Scholarships and Stipends are meant only for United Provinces students.

Special short courses are arranged in Weaving, Dyeing and Printing for the benefit of those already in trade.

Limited hostel accommodation is available. A monthly fee of Re 1 is charged. Students make their own arrangement for food.

An allowance of Rs 7 to Rs 10 per month would suffice.

**BENGAL SWEETS** supplies directions for the preparations of all varieties of sweetmeats of Bengal. Re. 1/12. Industry Book Dept., Calcutta.

**GOVERNMENT WEAVING INSTITUTE, GAUHATI, ASSAM.**

The Institute provides the following courses of instruction —(1) Elementary course of one year for boys (2) Elementary course of one year for females, (3) Advanced Course of one year for boys only, and (4) Short course for professional weavers

Boys between 15 and 25 years of age, of sound physique and with some general education are eligible for admission, preference being given to pupils belonging to the Weaving classes. Girls into the female Section of the elementary course should have a working knowledge of either Assamese or Bengali and simple calculations. There is no restriction as regards age or educational qualification of a candidate for the short course.

Session, for the first three courses, begins on the 16th July each year. Professional weavers for the short course may be admitted at any time according to convenience. Application for admission and stipends into the first two courses should reach the Weaving Superintendent on or before 1st July and 10th June respectively. Ten stipends of Rs 10 per month each are annually awarded to selected candidates for the courses I and II, and 5 stipends are awarded to students of course III.

No fees are charged to students but a deposit of Rs 5 must be made before a candidate is admitted against any damage caused wilfully or by gross negligence.

There are two hostels attached to the Weaving Institute, one for Hindus and the other for Muslims having an accommodation of 32 students. No fees are charged for the rooms, but students shall make their own arrangements as to cooking.

**Special Silk Weaving Course—1 year's course**

Only those students who have passed the Advanced course of this Institute or its equivalent and who have shown special aptitude for silk weaving are eligible for admission. The number of students in this course will not exceed 10 at any time.

Four stipends at the rate of Rs 10 per mensem are awarded annually to the selected candidates.

Session —Commences in middle of November each year.

Examination —An examination will be held at the end of the session and certificates will be issued to the successful candidates.

New Extension —Addition of a silk throwing plant.

**LALKURTI HOSIERY SCHOOL,  
Wahid-ud-din Road, Meerut Cantt**

Knitting of Socks, Hoses, Stockings, Mufflers, Jerseys, Towels, Harness-cloths, Table-cloth, and Embroidery works are taught (Wool, Cotton thread and mercerised silk). Fitting of machinery is taught. One year's course of study is fixed.

Newari and carpet weaving are also taught. No tuition fee. Candidates should not be less than 12 years of age. No boarding house.

**PIONEER HOSIERY COLLEGE, Gujranwala**

The College offers training on knitting socks and stockings, ladies' vests and jumpers, banyans, coat-sweaters, V neck pullovers, etc. Course 6 months. Sessions begin on 15th October and 15th April each year. The medium of instructions is English and Urdu.

Fees—Rs 150 for the Session is realised in two equal instalments, i.e., Rs 75 at the time of admission and balance of Rs 75 after 3 months. Only those candidates who have passed at least the Matric-

**BENGAL SWEETS** supplies directions for the preparations of all varieties of sweetmeats of Bengal. Re. 1/12. Industry Book Dept., Calcutta.

culuation examination or an equivalent standard of a recognised Indian University are eligible for admission into this College

There is a hostel attached to the College. The mess arrangement shall be made by the students themselves. A monthly fee of Rs 2 is charged for lodging and kitchen accommodation.

A student's monthly expenditure will ordinarily be between Rs 8 and Rs 10 comprising board and lodging.

**RANCHHODLAL CHHOTALAL TECHNICAL INSTITUTE,  
Ahmedabad.**

Courses taught at this Institute are—Cotton Spinning, Cotton Weaving, Mechanical Engineering. Fee of Rs 10 per head per term (1 year) in each section is payable in advance. Free studentships to 25 % of students of the Institute, 6 Govt scholarships in I & II year classes of each section of Rs 10 each to B P students. An average sum of Rs 50 per year is the minimum need by a student to buy books, drawing instruments, etc. The average cost of living in Ahmedabad will be about Rs 20 per mensem. Free use of tools to all students. Free hostel accommodation to 30 students.

All candidates who have passed A V Std V and above are required to pass the Entrance Examination (fee Re 1) before admission, but those who have passed the Matriculation Examination or such equivalent examinations are exempted, the examination is usually held in the latter part of June.

Course in each of the above branches is three years. Session begins in the 2nd or 3rd week of June.

There is also a Wiremen's course. Examinations after obtaining one year's certificate from an approved Contractor. Same qualifications. Fee Rs 15 per term. One year's course. Classes twice a week from 6 P M to 9 P M. Examination by the Sec Com of Direction for Technical and Industrial Training, Bombay.

Apprentice classes are conducted from 1937.

**TEXTILE INSTITUTE, Chanderi, Gwalior.**

This Institute is at present being run as a Branch of the Central Technical Institute and provides Manual training in fine weaving with gold work for which Chanderi is famous. 2 years' course.

## Faultless and Distinctive Printing

The standard and solidarity of a business house is often judged by the general "get-up" and quality of its printed matter. Good printed matter is an advertisement of untold value, the best business-getter and the cheapest representative.

Faultless and distinctive printing will enhance the reputation of any firm, no matter whether it is an old established one or not. Good Printing gives clients more confidence.

You will have everything that is good printing in our shop. Our estimator, designer, artist and block-maker will be at your service whenever demanded. Our rates are always competitive.

**INDUSTRY PRESS,  
Shambazar, Calcutta.**

# CLASSIFIED TRADES & INDUSTRIES

## ABRASIVE DEALERS.

- |  |   |
|--|---|
| A. S. Abdullabhoj & Co, 81, Clive St., Calcutta                                | Krishnalal Tharam & Co, Ltd, 8, Royal Exchange Place, Calcutta. (Sand Paper)  |
| Ajax Products Ltd, 106, Armenian St., Madras (Sand Paper)                      | Langin Cement Factory, Ltd, 100, Clive Street, Calcutta (Sand Paper)  |
| Akbarali Esmailji & Co, 30, Strand Road, Calcutta.                             | McGavin & Co, 30, Strand Road, Calcutta   |
| Alfred Herbert (India) Ltd, 13-3, Strand Road, Calcutta                        | National Emery Works, Rawalpindi  |
| Chatterjee Chowdhury & Co, 40, Monsatala Rd, Kidderpur, Calcutta (Emery Cloth) | Precision Machine Tool Agencies, Warden House, Sir P Mehta Road, Fort, Bombay Br.—Ahmedabad                                   |
| East India Trading Co, 2, Church Lane, P O Box 487, Calcutta                   | S K Sen & Co, 13, Kailas Kaviraj Lane, P O. Beadon Street, Calcutta Factory — 22/1, Gangulipara Lane, P O Belgachia, Calcutta |
| Ebrahim Mulla Samsudin & Co, 12, Khoka Bazar, Bombay 3                         | Standard Emery Works, Andheri   |
| H S Cox & Co, 24, Rampart Row, Bombay  |   |
| Kantilal Bhogilal & Co, Nagdevi Cross Lane, Bombay (Emery Wheel).              |   |

## ABSORBENT COTTON DEALERS.

(See Surgical Dressing).

## ACCOUNTANTS & AUDITORS.

### AJMERE MERWARA.

- B D Gargiyea & Co. Gargiyea Niwas, Beawar

### BIHAR.

- B Gupta, Patna  
S N Datta & Co, P O Kadamkuan, Patna

### BOMBAY CITY.

- |   |   |
|---|---|
| A F Ferguson & Co, Allahabad Bank Building, Apollo Street, Bombay     | Chandabhoy & Jassoobhoj, Gustad Chambers, Sir Phirozshah Mehta Road, Bombay |
| A. S. Madon & Co, Mahendra Mansions, Esplanade Rd Fort, Bombay        | Chandulal & Co, Neptune Bldg, 170, Hornby Road, Fort, Bombay                |
| Alexander & Co, Menkwa Bldg, 10, Outram Rd, Fort, Bombay              | Chhotalal H Shah & Co, Bharucha Building, Kalbadevi Road, Bombay            |
| B S Dabke, B Com, 315, Gurgaon Back Road, Bombay                      | Chinu C Chokshi & Co, 90-94, Shank Memon St, Bombay                         |
| Bathbati & Purohit, National Ins Bldg, 204, Hornby Rd, Fort, Bombay 6 | Cornelius & Davar, Jehangir Wadia Building, 51, Esplanade Road, Bombay      |
| C H Sopariwala & Co, 14, Hummum Street, Fort, Bombay                  | Dalal Desai & Co, Merwan Bldg, Sir Phirozshaw Mehta Road, Bombay            |
|   | Dalal & Shah, 49, Apollo Street, Bombay                                     |
|   | Dalpatram P Pathak, 236, Kalbadevi Road, Bombay                             |
|   | Devchand & Co, T G Shah's Building, Near Tram Junction, Pydhownie, Bombay   |

**PRACTICAL METAL CASTING**—A comprehensive treatise on the art of founding with practical details Rs. 2/8. Industry Book Dept., Calcutta.



Framroze Sorabji Augia, F C R A,  
R.A., Mahendia Mansions, Es-  
planade Rd., Fort, Bombay  
H M Contractor & Co, Mheirwan  
Building, Sir Phirozshah Mehta  
Road, Fort, Bombay  
K S Aiyai & Co, 65, Apollo  
Street, Bombay  
Kulkarni & Khanolkai, Phiroze-  
sha Mehta Road, Fort, Bombay  
Nagindas & Maneklal, 29, Maldon  
House, New Marine Lines, Bom-  
bay (Income-tax Experts)  
Nariman D Adenwalla & Co, 418,  
Chhotalal Bhuvan, Kalvadevi  
Road, Bombay  
Nawroz A Davai & Co, Motilal  
Wadia House, 118, Pairsi Bazar  
St., Fort, Bombay  
S B Billimoria & Co, 113, Es-  
planade Road, Bombay, Bawa  
Dinga Singh Bldg. The Mall,  
Lahore  
Sharp & Tannan, Bank of Baroda  
Bldg, Apollo St, Fort, Bombay

#### BOMBAY PRESIDENCY

G D Apte, B.A., G.D.A., R.A.,  
New Kitab Building, Laxmi Rd,  
Poona City  
H S Sohony, Kasba Peth, Shola-  
puri.  
R G Shah, Sankdi Sheil, Ahme-  
dabad

#### CALCUTTA

A Basu & Co, 12, Vidyasagar St,  
Calcutta  
B Guha & Co, 5 & 6, Hale St.,  
Calcutta  
B N Mukherjee, B Com, G D A,  
R.A., 8-2, Hastings St, Cal  
G Basu & Co, 4, Hastings St,  
Calcutta  
George Read & Co, 1, Avenue  
House, Chowringhee, Calcutta  
H P Khandelwal & Co, 6, Old  
Post Office Street, Calcutta  
J Sen, A S A A (London),  
R. A., 5, Hastings St, Calcutta  
Lovelock & Lewis, 4, Lyons  
Range, Calcutta.  
M A Davai & Co, 100, Clive  
Street, Calcutta  
N Chaudhuri & Co, 2, Church  
Lane, Calcutta  
N Sircar & Co, 17, Mangoe Lane,  
Calcutta.

P C Bardhan & Co, 84-A, Clive  
Street, Calcutta  
P K Ghosh & Co Central Bank  
Bldg, 100, Clive St, Cal-  
cutta B1 —186, New Secretari-  
at Rd, Ramna, Dacca  
Price Waterhouse, Peat & Co,  
B-4, Clive Bldg, 8, Clive St,  
Calcutta Bianch—Civil Lines,  
Cawnpore  
Ray & Ray, 6, Church Lane, Cal.  
S A Afzal & Co., 1/1, Old Bally-  
gunge Rd, Calcutta  
S B Dandekar & Co, 7, Paisee  
Church Street, Calcutta  
S K Ghosh, 10, Old Post Office  
Street, Calcutta  
S K Kai, R A, 9, Hastings St,  
Calcutta  
S K Mittel, R A, Door No 1 &  
2, 84-A, Clive St, Calcutta  
S K Mukherjee, G.D.A., R.A.,  
12, Old Post Office St., Calcutta.  
S N Mukherji, 1-B, Old Post  
Office Street, Calcutta  
S R Bathoi & Co, 1-B, Old Post  
Office St, Calcutta

#### DELHI

D Roy & Co, Kashmere Gate,  
Delhi.  
J C Chandniok, Kashmere Gate,  
Delhi.  
Jagdish Prasad & Co, Chandni  
Chowk, Delhi  
P R Mehra, Connaught Circle,  
New Delhi

#### INDIAN STATES

B K Ramadhyani, B Sc., R.A.,  
34, 3rd Cross Road, Basavan-  
gudi, Bangalore City.  
S R Mandie, M.A., B Com, F S  
A.A., Gandhi Nagar, Bangalore  
City.  
V K. Chennyan, Kottayam P.O.  
Travancore State

#### KARACHI

A F Ferguson & Co., McLeod  
Road, Karachi.

#### LAHORE.

Basant Ram & Sons, Chamber-  
lain Road, Lahore.  
P. N Bahri & Co, 14, The Mall,  
Lahore.  
R Rai & Co, Lahore

Modern Methods of extracting, refining and bleaching of oils are ex-  
plained in "Vegetable Oil Industry." Re. 1/12 Industry Book Dept, Cal-

Sodhbans & Co, 7A, Nisbet Road, Lahore.

### MADRAS CITY

Aiyai & Co, 1-87, Mount Road Madras.

Brahmayya & Co, 7, Kondi Chetty Street, G T Madras

C C Reddy & Co, 2-19, Aimenian Street, G T Madras

D G Joshi & Co, National Insurance Buildings, Esplanade, Madras.

Fraser & Ross, 17, Aimenian St, Madras.

K S Krishnaswami & Jagannathan, 183, Mount Road, Madras

K Venkatasubbiah Naidu, 93, Godown St, Madras

L S Kotadia Garu, G D A, 7, Luckamdass St. Park Town, Madras

R L Kotadia, 7 Luckmudoss St, P T, Madras

Sastri & Shan, Oriental Bldgs, Armenian St, Madras

### MADRAS PRESIDENCY.

N C Rajagopal & Co, Agraharam St, Erode

T C Ranganatha Row. Srirangam, Trichinopoly

U R Ganapati, Govt D Com, G.D.A., R.A., Mangala Vilas, Erode, S I Ry

### UNITED PROVINCES

Chatterjee & Chatterjee, Lala Lajpat Rai Road, Bans Phatak, Benares City

## ACID MANUFACTURERS.

(Also See Carbonic Acid Gas Manufacturers).

### BENGAL.

Edward Chemical Industries, 38, Narasingh Dutt Road, Howrah

### BOMBAY

Dharamsi Morarjee Chemical Co. Ltd, Hornby Road, Bombay

Eastern Chemical Co, Ballard Estate, 15, Dougall Rd, Bombay

Mehar Chemical Works, 49, Nairgaum Road, Bombay

Premier Acid & Chemical Co, Mirzali Street, Emamwada Rd, Bombay 9

### CALCUTTA

Acid Chemical Works and Machine Shop, 11, 12, 13, Radhamadhab Dutt's Garden Lane, Bellaghata, Calcutta.

B K Paul & Co, Ltd, 1 & 3, Bonfields Lane, Calcutta

Bajaj & Co, 25, Swallow Lane, Calcutta

Bengal Acid & Chemical Manufacturing Co, 216, Bagmati Rd, Calcutta

Bengal Acid Manufacturing Co, 66 & 67, Bagmati Road, Cal

Bengal Chemical & Pharmaceutical Works, Ltd, 164, Manicktala Main Rd, Calcutta

Calcutta Chemical Co, Ltd, 35, Pandita Road, Calcutta

Chemical Supplies (Bengal) Co, 10, Gurudas Dutt's Garden Lane, P O Shyambazar, Cal

Contact Acid & Chemicals Co, 131, Lower Circular Rd, Cal

D Waldie & Co, Gillander House, 8, Clive St, Calcutta

Dr Bose's Laboratory Ltd, 45, Amheist St, Calcutta

Howrah Chemical Works, 192 Cross St, Calcutta

India Chemical & Pharmaceutical Industries, 188, Manicktola Main Road, Calcutta

Khaitan Sons & Co, 1, Commercial Buildings, Clive St, Cal

Law Murray & Co, 2, Cornwallis Street, Calcutta.

Oster Chemical & Pharmaceutical Works, 225, Bagmati Rd, Cal

Paramount Chemical Works, 24, Bancharam Akkur Lane, Cal

Standard Chemical & Pharmaceutical Works, 1, Jahai Lal Dutta Lane, Ultadanga, Calcutta

Universal Chemical Works, 34, Murari Pukur Road, Calcutta

### DELHI.

Mining & Chemical Industries Ltd., Connaught Circus, New Delhi Factory Jumna Bridge, Agra

Modern Methods of extracting, refining and bleaching of oils are explained in "Vegetable Oil Industry." Re. 1/12. Industry Book Dept., Cal.

**INDIAN STATES.**

Baroda Chemical Works, Goya Gate, Baroda  
 Bhavnagar Chemical Works, Vartej, Kathiawar  
 Mysore Chemicals & Fertilisers Ltd, 1129, Vanivilas Rd, Mysore.  
 Original Acid Co, Bedipura, Rajkot  
 Petlad Turkey Red Dye Works Co. Ltd., Petlad, Baroda

**LAHORE**

Nandlal Acid Factory, Naulakha, Lahore  
 Punjab Chemical Works, Shahdara, Lahore  
 Sree Radha Krishna Acid Factory, P O Naulakha, Lahore

**MADRAS.**

Madras Alkali & Chemical Works Ltd, 22-A, Linghi Chetty St, George Town, Madras

**PUNJAB.**

B R Sondhi & Co, Phagwara  
 Frontier Chemical Works, Rawalpindi  
 Sambhunath & Sons Ltd., Grand Trunk Road, Amritsar

**UNITED PROVINCES.**

Ajodhya Pershad Chemical Works, Ghaziabad, Meerut  
 Cawnpore Chemical Works Ltd, Anwargunge, Cawnpore  
 Krishna Chemical Works, Benares Cantt

**ADDING & CALCULATING MACHINE DEALERS.**

Blackwood Bryson & Co, Ltd, 2, Mangoe Lane, Calcutta, Bharat Insurance Bldg, Elphinstone Circle, Fort, Bombay  
 British Tabulating Machine Co, Ltd, Graham Bldgs, Esplanade Rd, Bombay, 17, Central Avenue, Calcutta  
 Burroughs Adding Machine Co, Chartered Bank Bldgs, Cal,

Sorab House, 235-237, Hornby Road, Bombay  
 Felt & Tarrant (India) Co, 4, Lyons Range Calcutta, (Comptometers),  
 Kilburn & Co, 4, Fairlie Place, Calcutta (Cash Register)  
 Remington Rand Inc, 3, Council House St, Calcutta  
 Volkart Bros, 3, Clive St, Cal

**ADDRESSING MACHINE.**

Addressograph-Multigraph Ltd, Bharat Insurance Bldgs, Elphinstone Circle, Bombay

Adrema Ltd, Lakshmi Bldg, Sir Phirozshah Mehta Road, Fort, Bombay

**ADHESIVE MANUFACTURERS.**

(See under Gum and Paste Manufacturers).

**ADVERTISEMENT SIGN BOARD MAKERS.**

Aero Sign Service, 10, Bozanquet, Indore City.  
 Anantram Gupta, Khajekalan, Patna City  
 Asok Bagchi's Art Studio, 165, Cornwallis Street, Calcutta.  
 Chitra Kutir, 128, Cornwallis St, Calcutta

Gulab Lall & Sons, Chiturtoli Road, Arrah, Shahabad

Painter Goonanuth, Kalbadevi Road, Bombay

Various Sign Service, 12A, Ramnaram Bhattacharjee Lane, Cal

**ADVERTISING TAPE MANUFACTURERS.**

Amritlal Harjwandas & Co, Old Anjirawadi, Mazgaon, Bombay.

Eastern Tape Manufacturing Co, Ferguson Road, Lower Parel, Bombay.

Eagle Advertising Tape Factory, 51, Eaglewadi, Kurla, Bombay.

India Trade Agency, 16-1, Shyama Charan De Street, Calcutta,

**"Careers of Agents and Middlemen"** A reliable guide on the functions, Scopes and qualifications of Agents and Middlemen, Price Re. 1/4.

Niroo & Co, 19 Bank Street,  
Bombay.  
Reliance Trading Co, 43, Clive

St, Calcutta.  
Upper Indian Manufacturing Co,  
15-30-36, Civil Lines, Cawnpore

### AERATED WATER MANUFACTURERS.

#### ASSAM.

Golam Rahman & Sons, Gauhati

#### BENGAL

Bose's Water Factory, Snajganj  
Bazar, Pabna Dt  
Carlsbad Mineral Water Manufac-  
tory, 14, Watkins Lane,  
Howrah

Club Mineral Water Co, 14, Wat-  
kins Rd, Howrah

Narayanganj Aerated Water Co,  
Ltd, Hajiganj, Narayanganj.

#### BIHAR.

Baluch Ram & Co. No 5, Quar-  
ters, Near P O, Dinapur Cantt

#### BOMBAY CITY

Bell & Co, Near Municipal Work-  
shop, Byculla, Bombay

Brandon & Co, Ltd, 43, Old Cust-  
om House Road, Fort, Bombay.

Brandy Bros Aerated Water Fac-  
tory, 244, Bellasis Road, Bom-  
bay.

Breul & Co, Taj Building,  
Hornby Road, Bombay

Data & Co, Lins Bungalow, Ca-  
dell Rd, Worli Side, Bombay.

Duke & Sons 2A, Khetwadi Main  
Road, Bombay,

Kemp & Co, Ltd, Chaini Road,  
Bombay

Noble & Co, Khetwadi, 4th Lane,  
Bombay.

Turf Aerated Water Factory, 67,  
Tardeo Road, Bombay 7

#### BOMBAY PRESIDENCY

Akbar & Co, Nasik City.

Badshah Factory, Navapura,  
Surat

Dinshaw & Company's Factory,  
Kampith Bazar, Surat,

G Y Chawre & Co, Nasik City.

Hajuri & Son's Factory, Salabat-  
pura, Surat.

Imperial Soda Factory, Haripura  
Road, Asarva, Ahmedabad

Jamshedji Jivanji & Son's Fac-  
tory, Nanpura, Surat

Jaychand Panachand & Bios, off  
Ambica Mills, P O No 2, Ahme-  
dabad

K Lala & Son's Factory, Station  
Road, Surat

Palanji Beramp Hilluvala Fac-  
tory, Station Road, Delhi Gate,  
Surat.

Railway Soda Factory, Zampa  
Bazai, Surat

Tajmahal Soda Factory, Zampa  
Bazai, Surat

#### CALCUTTA .

Bathgate & Co, 17, 18, & 19, Old  
Court House Street, Calcutta

Byron & Co, 4-B, Chowringhee,  
Calcutta. Br —3, Cullen Place,  
Howrah

Cooper & Co, 8, Ezra St, Cal

Fresco Soda Fountain & Co, 172,  
Dharamtolla St, Calcutta

Lyon's Minerals Co, 23, Free  
School Street, Calcutta

New York Soda Fountain, 184,  
Dhurarantollah St, Calcutta

R Scott Thomson & Co, 15-1,  
Chowringhee Place, Calcutta,

Rose & Thistle, 16, Sandel St.  
Calcutta

Spencer Aerated Water Factory,  
87, South Entally Rd, Calcutta

Br —Mount Rd, Madras

Standard Aerated Water Co, 2,  
Wellesley 1st Lane, Calcutta

#### CENTRAL PROVINCES

L D Vermans, Andherdeo, Jub-  
bulpore

Murari Lal Gupta, Katni, Jubbul-  
pore.

Narbada House, Galgala Road,  
Jubbulpore

Wali Mohamad Rahmtulla, Hin-  
ganghat, Wardha

#### DELHI.

Aero Club of India & Buimah  
Ltd, 13, Aurangzeb Rd, Delhi

Behari Lal & Co, Mori Gate,  
Delhi

Coronation Soda Water Factory,  
Mori Gate, Delhi

**"Careers of Agents and Middlemen"** A reliable guide on the functions,  
Scopes and qualifications of Agents and Middlemen, Price Re 1/4..

Crystal Aerated Water Works, 3,  
Club Rd, Delhi  
Empress Aerated Water Factory,  
Burn Bastion Road, Delhi  
Kelly's Mineral Water, Nicholson  
Road, Delhi  
Obia's Aerated Water Factory,  
Goal Market Rd, Delhi  
R K Goyal & Co, Burn Bastion  
Road, Delhi.

**INDIAN STATES**

Fancy Soda Mnfgr Co, Chikmagalur, Mysore.  
J Preston & Co, Jaipur  
K Rudrappa Soda Factory, Devangere, M & S M Rly  
Sunderji Vinji Vaire & Co, Station Road, Rajkot, Kathiawar

**KARACHI**

Bliss & Co, Elphinstone Street, Karachi  
Framji Sorabji & Son, Fiere St Karachi  
Hassanali & Co, Near Max Denso Hall, Karachi  
Imperial Mineral Water Works, near Globe Cinema, Karachi  
Nusserwanji & Co, Elphinstone Street, Karachi,  
Rawji Babaji, Somerset Street, Karachi.

**MADRAS CITY.**

A Swami Nath Mudali & Sons, 322, Wall Tax Rd, Madras  
Iwin & Co, Pudupet St. Alanthooi, St Thomas Mount Madras  
Miller & Co, 6, Wall Tax Road, Park Town, Madras  
Royal Aerated Water Factory, Royapuram, Madras  
Scott & Co 404, Triplicane High Road, Madras  
Standard Aerated Water Factory, Lang's Garden Road, Komaleswaranpet, Madras  
W E Smith & Co. Ltd. Mount Road, Madras

**MADRAS PRESIDENCY.**

Aerated Water Factory, Hospital Road, Kurnool  
Bhajan Ice & Aerated Water Factory, 1 Williams Road, Cantonment, Trichinopoly

Bharat Soda Factory, Kadur P.O., Anantapur Dt  
Bichappa Soda Water & Soap Factory, Tandur, N.S.R  
Djeamibiga & Co, Ambalathadu Ayyer Madom Street, Pondicherry  
Gouri Soda Factory, Big Conjeeveeram  
Palani Vilas Soda Factory, Bhavan Road, Erode  
R K M N Aerated Water Factory, West Arayan St, Kumbakonam, Tanjore  
Ramadass & Bros, Veeranki Lock, Kistna  
S S Char & Co. Cantonment, Trichinopoly  
Sarada Vilas Soda Factory, Lord Napier St, Erode  
Selvaganesai Soda Factory, Big Conjeeveeram  
Shunmugam Soda Factory, Mona Seena Street, Sivakasi, (S I Ry)  
Sree Krishna & Co, Bazar St, Erode  
Suburban Soda Factory, Calicut, Malabar South  
Vincent & Co Ltd, Trichinopoly

**ORISSA.**

M Balaram, Mandasa, Ganjam  
Y Narayan Murty, Mandasa, Ganjam

**PUNJAB**

Bhai Natha Singh & Co, Sargodha  
Imperial Soda Water Factory, Kalka, Ambala.  
Kailash Soda Water Factory, Sargodha  
Mehra Aerated Water Factory, Dhamsala, Kangra  
Nowrojee & Son, Upper Dhamsala, Kangra

**SIND.**

Hannam & Co, Sadai Market, Sehwan, Larkana, Sind  
Manchery & Co, Sadai Bazar, Hyderabad Sind  
Udhaiam Davaram Soda Water Works, Shahi Bazar, Hyderabad, Sind

**UNITED PROVINCES.**

Bamanjee Soda Water Factory,  
Chandi Road, Hapur, Meerut  
Begg Sutherland & Co, Ltd,  
P.O., Box No 21, Cawnpore  
Dilkush Aerated Water Factory,  
104, Cantt, Lucknow  
Ideal Aerated Water Factory, 58,  
Canning Street, Baraakhana  
Bldg, Rakabaganj, Lucknow

Mohd Fazal & Sons, Meston Road,  
Cawnpore  
Murray & Co, Ltd, Mall Road,  
Cawnpore  
S D Bawaja & Son, King Mar-  
ket, Cawnpore  
Spencer & Co, Ltd, Grand Trunk  
Road, Cawnpore  
Sunder Singh & Sons, 119, Amu-  
nabad Road, Lucknow

**AERATED WATER REQUISITE DEALERS.**

(Also Consult Carbonic Acid Gas Manufacturers & Soda Water Machinery Dealers).

**BOMBAY CITY.**

Bombay Trading Co, 11-14, El-  
phinstone Circle, Opp Town  
Hall, Bombay 1  
Essofaly Mahomedaly & Co,  
102-4, Bhūsari Mohalla, Bombay  
No 3  
Royal General Supply Agency,  
Bode, Chawl, Princess Street,  
Bombay

**CALCUTTA**

Allied Agency, 16, Bonfields Lane,  
Calcutta  
Bengal Aerating Gas Factory, Ltd,  
42, Garden Road, Calcutta  
Clive Medical Hall, 8, Ezra, St,  
Calcutta  
F N Sirkai, 37, Canning St, Cal  
Little's Aerating Gas Co, 103-A,  
Foreshore Rd, Sibpui, Nr Cal  
S P Singha & Co, 67, Ezra St,  
Radhabazai, Calcutta

Sirajul Arifeen & Co, 1, Ezra St,  
Radhabazai, Calcutta

**KARACHI**

Abdoolally Moosabhoy & Sons,  
Marriott Road, Karachi  
Ismailjee Alibhoy & Sons, New  
Market Road, Karachi  
Maganlal Dayalal & Co, Marriott  
Road, Karachi

**MADRAS PRESIDENCY**

Central Wai House, Rangaraj  
Mansion, Vellore.

**PUNJAB.**

Hira Lal Mehra & Brothers, Katia  
Jaimal Singh, Amritsar

**UNITED PROVINCES.**

Spencer & Co Ltd, Allahabad  
Road, Cawnpore

**AERIAL TRANSPORT COMPANIES.**

Air Services of India Ltd, Bla-  
bourne Stadium, Church Gate  
St, Fort, Bombay  
British Overseas Airway Corpora-  
tion, Victoria House, Calcutta  
Indian Airways Development Co,  
1, Rowland Road, Calcutta  
Indian Air Survey & Transport,  
Ltd, 2/1, Jessore Rd. Dum  
Dum, Calcutta  
Indian National Airways Ltd,  
H O Scindia House, Connaught  
Circus, New Delhi Other Offi-  
ces at Victoria House Chow-

inghee Sq, Calcutta Finlay  
House, McLeod Road, Karachi  
Devichand Bldg, The Mal,  
Lahore Jacobabad, Gwahar,  
Rajsamand (Udaipur State)  
Cawnpore, Allahabad  
Indian Trans-Continental Airway  
Ltd, Finlay House, McLeod Rd,  
Karachi.  
Royal Dutch Air Lines (K L M),  
27, Dalhousie Square, Calcutta  
Tata Air Lines (Tata Sons Ltd),  
Bombay House Bruce Street,  
Fort, Bombay

**AGARBATTI MANUFACTURERS.**

Damodardas Bhagwandas, 761,  
Raviwar Peth, Poona City

Ismail G Kasambhai & Co 218,  
Samuel St, Vadga, Bombay

Manufacturing processes of paints, varnishes and sealing wax ex-  
plained in Prospective Industries. Re 1/12. Industry Book Dept, Cal

K P. Gupta Agarbatti Factory,  
6, Appurao Lane, Nagarhpet,  
Bangalore City.

Laxmandas Gekuldas, 445, Ravi-  
war, Poona 2

M K Attay & Sons, Agarbatti  
Factory, Pachhapur, Belgaum

Mahalaxmi Sugandha Kariyalaya,  
Kolhapur City

Mysore Agarbatti Co, 1, Madar  
Sahid St., Bangalore City

Mysore Bijou Bin 206, 4th Road,  
Chamarajapet, Bangalore City

Mysore State Trading Agarbatti  
Co, 34/1, Ratu Sarkar Lane,  
Calcutta

Navaratan Agarbatti Factory,  
Pachhapur, Belgaum

Sree Satyanarayan Parimal Fac-  
tory, Jaganmohan Palace Sq.,  
Mysore

Thomas Rodrigo & Sons, Post Box  
1209 Madras (Fragrant Church  
Incense)

V N & Sons, 87, Raviwar,  
Poona 2

### AGENTS, ADVERTISING.

#### ASSAM.

B Dutt Paltanbazar, Gauhati,

#### BENGAL.

Darjeeling Popular Agency, Mount  
Pleasant Rd., Darjeeling

Modern Advertising Agency, 11,  
Sankartola Lane, Dacca

N M Ghosh & Sons, Meherpur  
Thanaghat, Meherpur, Nadia

#### BIHAR.

Behari Advertisers, Muzaffarpur  
Gayti Bhusan Ashram, Raipur,  
Muzaffarpur

George Book Depot, Arrah, EIR  
Standard Commercial Syndicate  
Eden Road, Gaya

#### BOMBAY CITY.

A C Patel & Co, Meadows Street,  
Fort, Bombay

Adarts, Limited, 12, Rampart Row,  
Fort, Bombay

Advertising Agency, 89, Princess  
St., Bombay 2

Art Advertising Bureau, Raja Ba-  
hadur Bansilal Bldg, 293, Bel-  
lasis Rd., Bombay (Cinema  
Advt.).

B Dattaram & Co, New Shingne  
Bldg, near Portuguese Church,  
Girgaon, Bombay No 4

B P Samant & Co, 116, Charni  
Road Bombay 4

C Parikh & Co, Padai Cham-  
bers, 109, Parsi Bazar Street,  
Fort, Bombay

Comadverts Hasan Chambers,  
Paisee Bazar St., Fort, Bombay

Ind Advertising Agency, Shai  
Bhuvan, 289, Sandhurst Road,  
Bombay 4

J Walter Thompson Company, 3,  
Wittet Road, Bombay, 5, Bank-  
shall St., Calcutta

Maharashtra Advertising Agency,  
New Charni Road, Gurgaon,  
Bombay 4

National Advertising Service,  
People's Bldgs, Sri P Mehta  
Rd., Bombay

Swastik Publicity & Advtg Agen-  
cy, Raja Bahadur Compound  
Hamam St., Fort, Bombay

#### BOMBAY PRESIDENCY

Gandhi & Co, 54, Raviwar Peth,  
Poona 2

Imperial Advertising Syndicate,  
Laxmi Road, New Kitab Build-  
ing, Poona City

India Advertising Agency, 431-7,  
Shukrawar Peth, Tilak Road,  
Poona

Ramanlal Chumilal, Hajam Shary,  
Broach

Sumanlal R Gandhi, Sangadla-  
wad, Gopipura, Surat

#### CALCUTTA.

A C Saha & Co, 24, Raja Lane  
Calcutta

A Mitter, 4, Nebubagan Lane,  
Bazbazar, Calcutta

Arshiboy & Co, Head Office.—  
1-1, Durga Pituri Lane, (Off  
Bowbazar St.) Calcutta

Art-o-Variety, 7-LK Jamir Lane  
Calcutta

Get ideas of profitable occupations from "Independent Careers for the  
Young." Re 1/12, Industry Book Dept, Shambazar, Calcutta

Basudeo Shroff, 116, Chittaranjan Ave, Calcutta

Bharati Publicity Service, 106A, Dinendra St, Calcutta

Bharati Publicity Syndicate, 118, Parashar Road, (Lake Market), Calcutta

Broadway Publicity of India, 25, Ram Mohon Saha Lane, Cal  
Calcutta Publicity Service, 65-2A, Raja Rajballuv St, Calcutta

Central Calcutta Advertisement Co., 50, Hidaram Banerjee Lane, Calcutta

Central Publicity Service, 161-1, Harrison Rd, Calcutta

D J Keymer & Co, Ltd, 5, Council House St, Calcutta  
Ballard Estate, Bombay

Economic Advertising Agency, 158, Mukhtaram Babu St, Cal

Empire Publicity Service, 99-1F, Cornwallis St, Calcutta

Esshaw Publicity, 61, Shambazar St, Calcutta

Eureka Publicity Service, 157B, Dhurumtolla St, Calcutta

Garett & Garrett, 2, Commercial Bldgs, Clive St, Calcutta

General Advertising Agency, (India), Ltd, 37, Chowringhee, Calcutta

Ideal Advertising Agency, 51, College St, Calcutta

India Advertising Service, 116, Chittaranjan Avenue, Calcutta

Indian Publicity Bureau (Regd), 7, Harrison Road, Calcutta  
Phone BB 1905

J S Ahmed, 69, Ekdaha Road, Calcutta

K Shaw's Sign Service, 128-44A, Cornwallis St, Calcutta

Metro's Publicity Sales & Service Ltd, 10 Clive Row, Cal

Orient Publicity Service, 2, Commercial Bldgs, Clive St, Cal

Paradise Advertising Agency, 4, Sahitya Parisad St, Calcutta

Pioneer Advertising Agency, 5-2F, Raja Rajballuv St, Calcutta

Popular Advertising Syndicate, 309, Bowbazar St, Calcutta

Press Syndicate Ltd, 10 Government Place, East, Calcutta

Publicity Society of India Ltd, 1, Waterloo St, Calcutta

Trades Advertising Company, 4, Garstin Place, Calcutta

Universal Publicity Co (Regd), 89, Bechu Chatterjee St, Cal

#### CENTRAL PROVINCES.

C P Advertising Agency, Kamania, Gate, Jubulpore

C P Advertising Service, Station Road, Raipur

S V Gowhale, Mahajan's Chawl, Nagpur

#### DELHI.

B N Gupta, 106, Shradhanand Bazar, Delhi

Standard Publicity Service, Chandni Chowk, Delhi

Upper India Advertising Agency, Karol Bagh Delhi

#### INDIAN STATES.

M Rahmeth, 2048, Outside Dourbipura, Hyderabad (Deccan)

New Eastern Trading Co, Rajendra Road, Jamnagar

Patra-Haf, Jaipur City, (Raj)

S V Dher Bros, Little Cottage, Attungal, Travancore

South Indian Advertising Agency, 13, Kilhari Rd, Bangalore

#### KARACHI.

Malane & Co, Bunder Road, Karachi

#### LAHORE.

Arrow Publicity Service, Rashid Road, Lahore

Eastern Advertising Bureau, Railway Road, Lahore

General Agency Office, Sultanpura, Lahore

Laurels Publicity Service, The Mall, Lahore

Lavelasts Ltd, 22, McLeod Road, Lahore  
Br —Bombay, Calcutta and Delhi

Swastika Publicity Service, 17, MacLagan Road, Lahore

#### MADRAS CITY.

Modern Publicity Company, 4 Eldama Rd, Alwarpet P.O., Madras

Get ideas of profitable occupations from "Independent Careers for the Young" Re 1/12. Industry Book Dept., Shambazar, Calcutta.



Modern Travelling Advertising  
Co., 186, Mount Rd., Madras  
Royal Advertisers, 13, Veerappan  
St., Sowcarpet, Madras  
Vasan's Advertising Centre,  
Kishan Bhavan, Vepery P O,  
Madras

**MADRAS PRESIDENCY.**

Advertising Agency, Big Bazar  
St., Trichinopoly  
All India Advertising & Registra-  
tion Agency, Agraharam St.,  
Erode  
Coimbatore Advertising Co.,  
49, Variety Hall Road, Coimba-  
tores  
Panri's Advertising Agency, Koiad-  
acheri, S I Riv

**ORISSA.**

Modern Advertising Service,  
Sutahat, Cuttack

**PUNJAB.**

Asadulla Khan & Co., Basti Nau  
Jullundur  
Bhalla Brothers, D A V College  
Rd., Rawalpindi  
Jagindra Commercial Agency,  
(Govt Regd.), Ludhiana  
Jangra Commercial Agency  
(Regd.), Ludhiana

National Advertising & Mercan-  
tile Agency, Commerce House  
Ludhiana.

North Western India Advertising  
Agency, Amritsar

Rama Trading & Advertising  
Agency, Solan, Simla Hills.

**SIND.**

Imperial Advertising Co. Tilak  
Rd., Hyderabad, Sind  
P D Bhatia Near Santdas Well,  
Rohri, Sind

**UNITED PROVINCES.**

Aligarh Advertising Agency,  
Aligarh  
General Trading & Advertising  
Co Saharanpur  
Kailash Advertising Agency, La-  
laka Bazar, Meerut City  
Oudh Advertising Agency, Pura  
Fyzabad  
Reliance Advertising Bureau,  
Talaqmahal, Cawnpore  
Sagar Advertising Agency, 32-138,  
Simon Chowhatta East Benares  
City  
Sharman Patcash & Co Benares  
City  
Swadeshi Advertising Agency,  
53A, Civil Lines, Agra.

**AGENTS, FORWARDING, SHIPPING & CLEARING.**

(See Also Shipping Information).

**BENGAL**

Dass Transport Agency, 80, Hur-  
logunge Rd., Salkea, Howrah  
Ganga Transport Co., 446/1, G T  
Road South, Howrah

**BIHAR**

Sahoo Bhagwan Das, Birgunj,  
P O Raxaul, Dt Champaran

**BOMBAY CITY**

Anglo-Indian Carrying Co., 5,  
Graham Road, Ballard Estate,  
Bombay, 103, Clive Street, Cal  
Chaturbhoy Khasee & Co, Ahme-  
dabad St., Rice Godown, Fiore  
Road, Bombay  
Cooper Landing Co. Dady House,  
Church Gate St., Bombay.

Cox & Kings (Agents) Ltd.,  
Lloyds Bank Building, Hornby  
Road, Fort, Bombay

D Abraham & Sons, Mercantile  
Chambers, 22, Graham Road,  
Ballard Estate, Bombay

Dadabhoy Hormusjee & Co, Dady  
House, Churchgate St., Bombay

Devji Govindji & Co., 374-76,  
Katha Bazar, Bombay

Fairdeal Shipping Agency, Wake-  
field House, Ballard Estate,  
Bombay

Jeena & Co, 10, Church Gate  
Street, Fort, Bombay

Mackinnon Mackenzie & Co.,  
Ballard Estate, Bombay

**COMPLETE TAILORING** contains the latest information on making of  
fashionable garments Rs 3/8. Industry Book Dept., Shambazar, Cal

Mansukhlal Atmaram Master,  
Sudama House, Witlet Road,  
Ballard Estate, Bombay  
National Transport Co., Wakefield  
House, Ballard Estate, Bombay  
Overseas Trading Co., 5, Jambul-  
wadi, Off Kalbadevi Rd., Bom-  
bay.  
Padamshi Kanji, 10, Masjid Bun-  
der Road, Bombay.  
Pitamber & Co., Scindia House,  
Ballard Estate, Fort, Bombay  
Premji Ranchhodas, 197, Bazar  
Gate St., Fort, Bombay  
S. D. Engineer & Co., Imperial  
Chambers, 32, Wilson Rd., Bal-  
lard Estate, Bombay.  
S. R. Pusalkar & Co., Wakefield  
House, Ballard Estate, Fort,  
Bombay.  
Shantikumar Norottam Morarjee,  
Juhu, Bombay, via Santa Cruz  
Tulsidas Khimji, 46, Church Gate  
Street, Fort, Bombay.

#### BOMBAY PRESIDENCY

Bhagat Dalal & Co., Bihmora,  
Surat

#### CALCUTTA

Abdool Razak Hajeer Abdool Sut-  
tar & Co., 32, Ezra St., Calcutta  
Anglo-Indian Carrying Co., 103,  
Clive St., Calcutta  
Atlas Agency, 20, Strand Road,  
Calcutta  
Banerjee & Co., 2-1, Ray Bagan  
Street, Calcutta  
Bysack's Landing & Shipping  
Agency, 26 A, Clive St., Cal  
Calcutta Shipping Bureau, Room  
8, Custom House, Calcutta  
Calcutta Shipping Syndicate, 67,  
Ezra Street, Calcutta  
Commercial Carrying Co., Ltd.,  
11, Clive Row, Calcutta  
Cox & Kings (Agents) Ltd., 5,  
Bankshall Street, Calcutta; Mc-  
Leod Road, Karachi  
Eastern Carrying Co., Ltd., 5,  
Bankshall Street, Calcutta  
General Trading Corporation, 8B,  
Lall Bazar St., Calcutta  
George Waller & Co., 29, Dal-  
housie Square, Calcutta  
Ghosh & Co., 25-A, Khudiram  
Bose Road, Calcutta

## THE PREMIER COMPLETE INDIAN TRAVEL BUREAU

WE ARE AT YOUR SERVICE

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RAIL - SEA - AIR  
TRAVEL

FOR YOUR

SHIPPING-CLEARING  
FORWARDING-INSURANCE

**JEENA & CO.,**

10, CHURCHGATE STREET, BOMBAY.

Telegrams JUSTITIA

Search Light Clearing Agency,  
19, Strand Road, Calcutta  
Trikamdas Rowji Sons, 45-2, Wel-  
lington St., Calcutta  
Thos Cook & Son Ltd, 4, Dal-  
housie Sq East, Calcutta, In-  
censway, New Delhi, Cook's  
Bldgs, Hormly Rd, Bombay

**INDIAN STATES**

G. Raghunathmull, Chadaighat,  
Hyderabad, Deccan Br —Hy-  
derabad City & Secunderabad  
Deccan.  
H C Fernandez & Co. Calvetty  
Road, Cochin  
Indo Commercial Agencies Ltd,  
Kottayam, Travancore  
Keshavlal Kalyanji Chhatbai,  
Outside Bedi Gate, Jamnagar  
P. K Pereira & Sons, Main Rd,  
Trivandrum, Travancore  
Varmah Company, Ernakulam,  
Cochin

**KARACHI.**

Baloo Singh & Co, Donally  
Road, Karachi  
Indian Shippers Limited, Punjab  
National Bank Bldg, Bunde  
Road, Karachi  
Karachi Landing and Shipping  
Office, Native Jetty, Karachi  
M P Dastur & Co. Bunde Rd,  
Karachi  
S J. & G Fazul Ellahie, South  
Namer Rd, Karachi  
T. Motandas & Co.. Bunde  
Road, Post Box 25, Karachi

**MADRAS CITY.**

G E, Sampathu Chetty & Co,  
299, Esplanade, Madras  
Govindji R Mehta, 1—94, China  
Bazar Rd, Madras  
K P V Shank Mohamed Rowther  
& Co, 109, Angappa Naick St,  
Madras  
R Krishna & Co. 15, Seniamman,  
Koil St, Tondiarpet, Madras  
Spencer & Co., Ltd, Mount Rd,  
Madras  
Sugesan & Co Ltd., 109, Moore St,  
Madras  
T A Taylor & Co, (Madras) Ltd,  
Armenian St, Madras

**MADRAS PRESIDENCY.**

Aspinwall & Co, Ltd, South Co-  
tton Road, Tuticorin, Calicut  
Coromandel Co, Ltd, Vizagapa-  
tam  
D S Nalayana & Co, Cocanada  
H C Fernandez & Co, Mercantile  
Building, Mangalore, Kanara  
(South)  
K Coonhammad Kaya, Khan Sa-  
hib, Ceylon House, Calicut  
P A P Md Sahhu Rowther &  
Sons, Victoria St, Tuticorin  
Pierce Leslie & Co, Ltd, Calicut  
R M Ayyam Pillai, Victoria  
Extension Road, Tuticorin  
Ripley & Co, Commercial Road,  
Cocanada

**SIND.**

Mohini & Co, Rohri, Sind

**AGENTS, GENERAL.**

(See under General Merchants)

Alemic Distributing Agency  
(Bombay) Ltd, Lakshmi Bldg,  
Sir Pherozshah Mehta Road,  
Fort, Bombay  
Enn Dee & Co, Opp Small Causes  
Court, Bunde Road, Karachi  
General Distributors & Agency,  
8, Lyons Range, Calcutta  
Indo-Foreign Trade Service Opp  
Edward Theatre, 505, Kalbadevi  
Road, Bombay

M Manickam Selvapuram, Com-  
batore  
P Sham Lal Raina & Co, 3rd  
Bridge, Srinagar, Kashmir.  
S G Raju & Son, Naisapur, W  
Godavari Dist, South India  
Suleman, Habib Bantvawala,  
Market, Dharwar  
Universal Trading Co, Madana-  
palle, Chittoor Dt, S India

**COMPLETE TAILORING**—A guide to cutting and tailoring of Gents',  
Ladies' and Children's garments Rs 3/8 Industry Book Dept, Calcutta

**AGENTS, INSURANCE.****BENGAL.**

B K Dastidar & Bros., Court Road, Chittagong  
 Sudhir Krishna Das, 2, Lakshan Das Lane, Howrah  
 Upendranath Sen, Khulna

**BIHAR.**

H B Chandia, Patna.  
 Harihar Prasad, Nandkeolyai, Bakhshimardan, P O Begampur, Patna  
 True Money Supplying Co, Khalid Manzil, Arrah

**BOMBAY CITY.**

Anand & Co, Tamarind House Tamarind Lane, Fort, Bombay  
 Chimanlal P Shah & Co, Bombay Mutual Bldg, Hornby Rd, Bombay  
 G V Patwardhan & Sons, Yusuf Bldg, Churchgate Street, Fort, Bombay  
 James Finlay & Co, Ltd, Chartered Bank Bldg, Esplanade Road, Bombay  
 Jeena & Co, 10, Churchgate Street, Fort, Bombay  
 K Jivraj & Co, Industrial Ass Bldg, Opp Church Gate Station, Fort, Bombay  
 M B Dastni & Sons, Lamington Chambers, Lamington Road, Bombay  
 M P Goculdas & Co, Yusuf Bldg, Churchgate St, Fort, Bombay  
 Mohan Sons & Co, 125, Mahatma Gandhi Rd, Bombay 1

**BOMBAY PRESIDENCY**

B N Sathe & Bros, 436, Sadashiv Peth, Poona City  
 D J Medoia & Co, Dhun House, Ahmedabad  
 H Desai & Co, Khadia Golvad, Ahmedabad  
 Jasraj Hargovindas Shah, Khodi Ambli, Near Chhappapole, Ahmedabad  
 K S Joshi & Bros, 231, Patankar's House, 6th Lane, Dhulia  
 W Khandesh  
 Mohanlal Fulchand Shah & Co, Four Roads, Gandhi Rd, Ahmedabad

Padam P D Gati & Co, Opp Railway Station, Ahmedabad  
 T Venkatiaio & Sons, Extensions, Sangli

**CALCUTTA**

Abdool Razak Hajee Abdool Suttai & Co, 32, Ezra St, Calcutta  
 Andrew Yule & Co, Ltd, 8, Clive Row, Calcutta  
 Bid & Co, Chartered Bank Bldg, Clive Street, Calcutta  
 D M Das & Sons, 28, Dalhousie Square, Calcutta  
 Gullanders Arbuthnot & Co, 8, Clive St, Calcutta  
 Grahams Trading Co, (India) Ltd, 6, Lyons Range, Calcutta  
 Jardine Skinner & Co, 4, Clive Row, Calcutta  
 Sen & Co, 10, Clive Row, Cal  
 Shafiqueuddin Ahmed, 23, Komedan Bagan Lane, Calcutta (Moslem India Insurance)  
 Turner Morrison & Co, Ltd, 6, Lyons Range, Calcutta

**CENTRAL INDIA.**

Rameshchandra Sinhal, Neemuch Cantt, C I  
 S R Parekh, Main St, Mhow.

**DELHI.**

G D Tandon, Chandni Chowk, Delhi

**INDIAN STATES**

Ishveerlal Chimanlal & Co, Krishna Kunj Race Course Road, Baroda  
 N G Doshi, Rajkot Pura, Kathiawar  
 Paury & Co, Cochin  
 Pierce Leslie & Co, Ltd, Cochin  
 T N Krishnamachary, Station Rd, Raichur, Hyderabad. Dn  
 United Commercial Corporation Srinagar, Kashmir

**KARACHI**

H A Bhavani, Lakshmi Buildings, Karachi  
 L R Bhatia & Co, Mulji Street Karachi

**LAHORE.**

Dina Nath Kohli & Co, 13, Gawalmandi, Lahore

**COMPLETE TAILORING**—A guide to cutting and tailoring of Gents', Ladies' and Children's garments. Rs. 3/8. Industry Book Dept, Calcutta

**MADRAS CITY.**

M S Gopalan, 2, Double Mall St.,  
Teppakulam, Trichinopoly -  
Narayandas Girdhaidas, Khoo-  
shaldas Gardens, Kilpauk, Mad-  
ras

**MADRAS PRESIDENCY**

Gupta & Co, (Regd), Agriaharam  
Street, Erode, S 1  
K Vasudeva Rao, Oriental  
Agency, Erode  
Kaja Venkata Krishnarao, Chuala  
P O, Guntur  
Nanduru Ramkrishna Row, Pow-  
erpetta, Ellore, W Godavari Dt  
Wilson & Co, Cocanada

**ORISSA**

P N Mitra, Mitra Kutu P O.  
Chandni Chowk, Cuttack

**PUNJAB.**

Ambala Chhotalal Engineer,  
Chhoti Bazar, Dania, Palanpur,  
N Gujrat  
Nukalasin Sachai & Sons, Civil  
Lines, Gyrjanwala

**AGENTS, LAND, ESTATE & FINANCE.****BOMBAY CITY.**

Ahmed P Butler, 185-187 Nag-  
devi St, Bombay  
Bhat & Manilal, Bharat Bhuvan,  
Kalbadevi Road, Bombay (In-  
come Tax Adviser).  
Bhawandas & Co, 59, Nagdevi  
St, Bombay (Hundi Brokers)  
Cameleon Holmes & Co, Industrial  
Assurance Building, Church-  
gate Reclamation, Bombay  
Chunilal Karsondas & Co, Empire  
Building, Hornby Rd, Bombay.  
(Income Tax Consultants)  
Consolidated Investment Trust  
Ltd, Bombay House, 24, Bruce  
St, Fort, Bombay  
Eastern House Agency, Prospect  
Chambers, Hornby Road, Fort,  
Bombay

**CALCUTTA**

Ballygunge Land & Loan Agency,  
109, Rashbehari Avenue, Kali-  
ghat P O, Calcutta  
British India Public Debt Collec-  
tion Co, 6, Hastings St, Cal

S Guri Bhajan Singh Gill, Jaran-  
wala, Lyallpur Dt.

**SIND**

Jhamatmal & Co, Hiraabad, Hyde-  
abad, Sind  
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Engineering Metals & Alloys Co, Chintamani Jain Temple Bldg, 2nd Bhowada Lane, Bhuleshwar, Bombay 2 (Mnfis & Founders of Anti-Friction Bearing Whitemetals, Type Metals Lino, Mono and Stereo), Sold-

ers to British Engineering Standards Association Specification, Lead Seals, Boiler Zinc Slabs, etc, Sole Proprietor Mr B J Kansaria Telephone Bombay 24958 Telegrams "Emacometal" Bombay)

### ARC LAMPS & ACCESSORIES DEALERS.

Abbas & Co, 313, Abdul Rehman St, Bombay  
 Blackwood Bryson & Co, Ltd, 2,

Mangoe Lane, Calcutta  
 H T Shah & Co, Ahmad Bldg, Golpitha, Bombay

### ARCHITECTS & BUILDING CONTRACTORS.

A K Saikal, 10, Hastings Street, Calcutta  
 Ahmed Gaya & Co, 23, Peoples' Building, Sn Phirozshah Mehta Road, Bombay  
 All India Construction Co Ltd, Construction House, Wittet Rd Ballard Estate, Bombay  
 Asiatic Construction Co, Ltd, 477, Duncan Road, Bombay  
 Associated Construction Co, 43, Dharamtolla St, Calcutta  
 Balladie Thompson & Mathews, Wellesley House, Wellesley Place, Calcutta  
 Bhedwai Dhunshaw & Co, Behramji Mansions, Sn Phirozshah Mehta Road, Fort, Bombay  
 Bridge & Roof Co (India), Ltd, 103 Clive St Calcutta  
 Britannia Building & Iron Co, Ltd 100, Clive St, Calcutta  
 Builders' Syndicate, 8-2, Hastings St, Calcutta  
 Calcutta Building & Repairing Co, 20 Circus Row, Park Circus, Calcutta  
 Chinnoy, Buchia & Divecha Bansilal Bldg Bruce St, Fort, Bombay  
 Cleveland Bridge & Engineering Co, Ltd, 47, Strand Rd Cal

Concrete Construction Co, 29, Waterloo St, Calcutta

Concrete Products & Const Co, P15-1, Chowringhee Sq Cal

Coomar Construction Co, 37, Strand Rd, Calcutta

Dahanukai & Co, Ltd, Shri Krishna Niwas, Kalbadevi Rd, Bombay

Eastern Construction, P15-1 Chowringhee Sq, Calcutta

Estates Valuation & Engineering Co, Prince Ali Khan's Building, Old Custom House Road, Fort, Bombay

General Construction Co, Ltd, West Rushkeeram Club House Road, Madras. 102-1, Clive St, Calcutta

Hindusthan Engineering & Construction Co, Ltd, Construction House, Ballard Estate, Bombay, McLeod Rd, Karachi

J C Banerjee Ltd, 20, Strand Road, Calcutta

Jackson & Baker, 200, Mount Road, Madras

Jardine Menzies & Co, 2, Clive Row, Calcutta

K A Dhondy & Co, 2, 1, Hornby Road, Fort, Bombay

Write for Chemist's Help in your Chemical manufactures  
**INDUSTRIAL RESEARCH LABORATORY, 22, R G Kar Rd., Calcutta**

K P Davar & Co, Church Gate House, 30-31, Church Gate St., Bombay

Karim Nooriani & Co, Mustafa Bldg, 19, Sir Phirozshah Mehta Road, Fort, Bombay

L M Chitale, New Building, Edward Elliot Road, Mylapore, Madras

M L Dalmiya & Co, 76, Ashutosh Mukherjee Road, Calcutta Metropolitan Engineering Co, 156, Rash Behari Avenue, Cal

N D Nandi, 172, Lower Circular Road, Calcutta

N N Sen & Co (Engineers), Ltd 2-1, Mission Row, Calcutta

Premier Construction Co, Ltd Phoenix Bldg, Balliaid Estate, Bombay

Sanyal Brothers, 43, Ram Ch Sett Rd, Santiagach, Howrah

Satya Charan Das Gupta, Godhawlia, Benares City

Sykes Patter & Divecha, 24-26, Dalal St, Fort, Bombay

Zenith Construction Co, 3-1, Mangoe Lane, Calcutta

### ARMS & AMMUNITION DEALERS.

#### AJMER MERWARA

Royal Arms Co, Kutecherry Rd, Ajmer

#### ASSAM

Pitambar Das & Sons, Panbazar, Gauhati

#### BENGAL

A C Mitra & Co, Court Road Chittagong

#### BOMBAY CITY

Abdoolally Noorbhoy, 248-252,

Abdul Rehman St, Bombay

Bombay Armoury, 329-31, Abdul Rehman St, Bombay

Esoofally Mahomedally & Co, 102-104, Bhusari Mohalla, Bombay

Gooolamhusain Allibhoy & Sons, Ltd, 210 Abdul Rehman Street, Bombay

#### BOMBAY PRESIDENCY

Amrithbai Miyabhai, Kapad Bazar, Viramgam, Ahmedabad

#### CALCUTTA

A C Coondoo & Co, 170, Dharamtala St., Calcutta

Ashoo Tosh Daw & Co, 184, Dharamtala St, Calcutta

D N Biswas & Co, 10, Dalhousie Square East, Calcutta

Elahee Bukhsh Arms Co, 9-B, Dalhousie Equare (East), Calcutta

K C Biswas & Co, 1, Chowringhee Road, Calcutta

M Biswas & Co, 4, Chowringhee Rd, Calcutta

Manton & Co, 13, Old Court House Street, Calcutta B — Scindia House, New Delhi

N C Daw & Co, 9, Dalhousie Sq, East, Calcutta Phone Cal-1063, B — Raniganj & Ranchi

Nursing Ch Daw & Co, 9, Dalhousie Sqr, Calcutta B — Raniganj, E I Rly

R B Rodda & Co, Ltd, 2 Wellesley Place Calcutta Boat Works —23, Canal South Rd, Entally

T C Biswas, 20, Lal Bazar Street, Calcutta

#### CENTRAL PROVINCES

Hasan Ali Allabax, Inside Bhusari Gate, Amraoti

Kadaribhai Busain Ali, Tajnapeth, Akola

M A K Fida Hussain, Kamania Gate, Jubbulpore

Mond Hussein Hayat Ali, Satti Bazar, Raipuri

#### DELHI

Elahee Baksh & Co. Kashmere Gate, Delhi,

H Rashid Ahmad & Co, 5 Marina Arcade, Delhi

L. Ellison & Co, Kashmere Gate, Delhi

Pioneer Arms Co, Kashmere Gate, Delhi

#### INDIAN STATES

Abdul Ali Gulam Hussain, Boblonka Mohalla, Kotah,

Abdul Majeed, Hassan, Mysore

British Stores, Johri Bazar, Jaipur City

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INDUSTRIAL RESEARCH LABORATORY, 22, R G. Kar Rd., Calcutta.

P Allaha Bux & Sons, Jaipur  
Peerozeshaw & Co, Neemuch  
Purbax Akbar, Katla Bazar, Jodhpur  
Watts Bros., Oxford Street, Secunderabad

### KARACHI

Abdullay Moosabbhay & Sons  
Marriott Road, Karachi  
Essaji Esmailji Lalia & Sons  
Bunder Road, Karachi  
Haji Dossail & Sons, Elphinstone Street, Karachi

### MADRAS CITY.

N V Ramanujam Chetty & Co  
12, Popham's Broadway Madras  
Oakes & Co, Ltd, Mount Road, Madras

**MADRAS PRESIDENCY**  
C Vittap Malliya, Mangalore. S Kanara  
R Govindaswamy Naidu, 'Car View' Shevapat, Salem

### PUNJAB

Daulat Ram Vidya Perakash Sud, Moga, Punjab  
Gupta Brotheis, Montgomery, Punjab  
Lala Sawan Mall, Samloti, Kangra  
S S Din & Bros, Ludhiana.

### RAJPUTANA

Haji Karim Khan & Sons, Mochi Bazar, Nasirabad Rajputana.

### UNITED PROVINCES.

H Abdul Rahman & Sons, Meston Road, Cawnpore  
L Naiendia Lall & Co. Lohaghat, Almorah

## ARMY CONTRACTORS

Army Accoutrements Supplying Coy, Ludhiana  
Bhawoo Kashinath & Co. 63. Bhandari St. Near Null Bazar. Bombay (Military Clothing)  
Calcutta Spring Mfg Co. 84-A, Clive Street, Cal (Springs etc)  
Ch Badri Dass & Sons Dehra Dun Cantt  
G R Sethi, B.A. R B Ratan Chand Rd, The Mall, Amritsar

H Kader Bux & Sons, Bulk Issue Depot, Poona.  
H M Khandin Anardin, Quetta. Baluchistan  
Lalta Pershad Chitranilal, Trimulgherry, Secunderabad, Deccan  
P D Karai & Son, Ferozepore Cantt  
Udham Singh Ghulam Mohd, 22, Empress Road, Lahore

## ARTIFICIAL SILK MILLS.

Bharat Silk Mill, 10, Reay Road, Bombay  
Bipin Silk Mills Co, Ltd, Kasturchand Mills Compound Dadar, Bombay  
Courtaulds (India) Ltd, Tilak Bridge, Dadar, Bombay  
Habib Silk Mills, Atlas Mills Compound, Mazagaon, Bombay.  
Indianese Silk Mills, 169-170 Sassoon Dock, Colaba, Bombay.  
Kamala Silk Mills, Lower Parel, Bombay.  
Khatau Mackenji Silk Mills, Byculla, Bombay  
Manahar Mills Ltd, Mazagaon, Bombay 10  
Mustafa Silk Mills, Bhivindi, Bombay

National Art Silk Mills, Kasturchand Mills Compound, Dadar, Bombay.  
New Era Textile Mills Ltd., Tulsi Pipe Road, Bombay 16  
New India Rayon Mills, Jacob Circle, Bombay  
New Mahalaxmi Silk Mills, Lower Parel, Bombay  
Panalal Silk Mills, Atlas Mills Compound, Mazagaon, Bombay  
Sassoon & Alliance Silk Mills, Byculla, Bombay  
Sharda Silk Mills, Atlas Mills Compound, Mazagaon, Bombay  
Shree Laxmi Silk Mills, Kasturchand Mills Compound, Dadar, Bombay.

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Sikandar Silk Mills, Bhindi, Bombay,  
Swadesh Industries Ltd, Pan-  
hati, 24 Paigs Office P-23,  
Vivekananda Road, Calcutta.

Swastic Silk Mills, Lower Parel,  
Bombay.

Vinod Silk Mills, Kasturichand  
Mills Compound, Dadar, Bom-  
bay.

### ARTIFICIAL SILK YARN DEALERS.

#### BOMBAY CITY

Gordhandas Ishwardas, 93, Tamba  
Kanta, Pydhownie, Bombay

Hazarat & Co, People's Bldgs.,  
Sri P Mehta Road, Fort, Bom-  
bay

Sewaram Gudharilal, Tambakan-  
ta, Pydhownie, Bombay

Venkatnarayan Patuni, Matunga  
Plot No 275, Bombay

#### CALCUTTA

Bengal Silk Trading Co, 34,  
Lower Chitpore Rd, Calcutta

#### MADRAS.

Shah Moolchand Devichand, 88,  
Nyniappa Naick St, Madras

### ARTISTS.

Art Temple, 7, Indian Mirror  
St, Calcutta

**Asok Bagchi's Art Studio,**  
165, Cornwallis St, Cal (Spe-  
cialists for Portrait and House  
Painting)

Biomide Art Studio, P O, Box  
No 231, Madras

Edna Lorenz, Suite No 7, Chow-  
ringhee Mansions, 30, Chowrin-  
ghee, Calcutta

Gopal Studio, Godowlia, Benares  
City

Goswami Kala-Bhawan, 37, Grey  
St, Calcutta

Jays Vilas, Ramavarnapuram,  
Nagercoil

Katiak Studio, General Assurance  
Bldg, Opp Kemp & Co, Hornby  
Road, Fort, Bombay

Lal Chand & Sons, Dariba Kalan,  
Delhi

Mei Hua Studio, 6, Lower Chit-  
pore Road, Calcutta

New Halftone Company, 1, British  
Indian St, Calcutta,

R Krishnama Achariu, C/o Py-  
dee, Rama Rao, Land Lord,  
Ganesh Temple St, Brucepetha,  
Bellary, M S M Ry

S V Hassankar, Camp Chikma-  
galur, Mysore State

Shiba Prasad Mukherji, Dasaswa-  
medh Ghat, Benares

Sri Laxmi Photo Mart, Maikapur,  
Kurnool Dt

### ARTISTS' MATERIAL DEALERS.

Abinash Chandia Dutt, 1, Dha-  
ramtala St, Calcutta

Art Temple, 7, Indian Mirror St,  
Calcutta

Aukhoy Kumar Laha, 1, Dharam-  
tala St, Calcutta

Kashmir Cottage Yields 2nd  
Bridge, Srinagar, Kashmir

Macmillan & Co, Ltd, 294, Bow  
Bazar Street, Calcutta

Profile Colour Works, P O Jadav-  
pur College, 24 Paiganas (Ar-  
tists' Colour Mfrs)

Satiek Colour Works, 7, Madhu  
Roy Lane, Calcutta

W Newman & Co, Ltd, 3 & 4,  
Old Court House St, Calcutta

### ARTWARE MANUFACTURERS.

(Also Consult Clay Model Dealers, Curio & Ivory Goods Mfrs.)

#### BENGAL

Pearl Factory, Malay Nagar, Jes-  
sore. (Mother-of-Pearl wares)  
Ram Gopal Dhar, 123, Sankhar  
Bazar, Dacca (Conch Shell)

#### BOMBAY

Italian Marble Factory, Behind  
Grants Bldgs, Arthur Bundei,  
Colaba, Bombay,

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**BOMBAY PRESIDENCY**

Chunilal Manchharam Petigara,  
Lamda Chock, Gopisai, Surat  
(Sandalwood & Ivory Casket)  
Kalidas Ramji, Saidpura, Dhobi  
Sheti, Surat  
Somabhai C Petigara, Ambaji  
Rd, Surat (Sandal & Ivory)

**CALCUTTA**

Bengal Home Industries Association,  
Willingdon House, 42,  
Chowringhee Road, Calcutta  
Sur Brotheis, 103, Amherst St,  
Calcutta (Conch Shell)  
Swadeshi Shilpa Factory, 213,  
Cornwallis St, Calcutta

**DELHI**

Ait Place, Kashmere Gate,  
Delhi  
Kotai Ait, Connaught Place, New  
Delhi  
Latif Marble Works, Opp Juma  
Masjid Dispensary, Delhi

**INDIAN STATES**

Ahad Mu Ahmad Mir, 4th Bridge  
Mohalla Dubtal, Srinagar, Kash-  
mir  
Alekal Shivanand Rao & Co,  
Sorab, Shimoga, Mysore (San-  
dalwood Carving)  
Fine Art Gallery, Kishenpole  
Bazar, Jaipur City  
Kashmi Novelties House, 2nd  
Bridge, Srinagar, Kashmir  
M. R Lakshminarayan Setty,  
Doddapet, Mysore (Silver Pho-  
tos of gods and goddesses)  
M Yusuf Ali & Sons, Mandi  
Moh Mysore.  
Mohini Fine Arts & Ivory Works,  
Tiruvandrum, Travancore  
Mysore Arts and Crafts Institute,  
4, South Parade, Bangalore  
Mysore Art & Wood Works,  
Bangalore City

**LAHORE**

Lahore Marble Works, Mclarain  
Road, Lahore

**MADRAS PRESIDENCY**

A Evenore & Co, P O Beat No.  
1, Cantt, Trichinopoly  
Albert Martin & Co, Hampan-  
katta, Mangalore S Kanara

**ORISSA.**

N Srinivas Rao, Berhampore,  
Ganjam,

**PUNJAB.**

A R Qureshi, Ahmed Lodge,  
Gujrat, Punjab (Lockets)  
D Z Alfied & Co, Zahri Bldg,  
Mahansigate, Amritsar

**SIND**

Modern Mail Supply Co, Tlak  
Rd, Hyderabad, Sind (Locket)

**UNITED PROVINCES**

Arts & Crafts Emporium, Huziat-  
ganj, Lucknow  
Government U P Handicrafts,  
Hazratganj, Lucknow  
Indian Arts & Crafts Museum,  
Ry Station Rd, Moradabad.  
Indian Arts & Novelty House,  
Bombay Bazar, Meerut  
Johi Marble Works, Johi Mar-  
ket, Agra  
N K Porov's Fine Brass Works,  
Jageshwar Buildings, Gari-  
khana, Moradabad  
R G Bansal & Co, Chipitola Rd,  
Agra  
Shannon Art Mansion, Ry Stn.  
Road, Moradabad  
Sugan Chand Jain & Co, Johi  
Bazar, Agra  
T L Sharma & Co, Aligarh, U P.  
Office Noaimgabad  
U P Art & Craft Emporium,  
Hazratganj, Lucknow, Karnali  
Mansions, Calcutta

**ASAFOETIDA MERCHANTS.**

All India Hing Supplying Co,  
292, Bhat Bazar, Bombay  
Bombay Hing Supplying Co,  
Hansraj Karamji Bldg, 6,  
Musjid Bunder Rd, Bombay  
Gopaljee & Co, 203, Govindappa  
Naick St, G T, Madras

Gopaljee Champs & Co, Banduk-  
wala Bldg. Samuel Street,  
Bombay

Vaijwandas Hirjee & Co, 194,  
Govindappa Naick St, Madras

**MINERALS, SALT, COMMERCIAL PRODUCTS ANALYSED.**  
**INDUSTRIAL RESEARCH LABORATORY, 22, R G. Kar Rd., Calcutta.**

**ASBESTOS & ASBESTOS GOODS DEALERS.****BOMBAY CITY**

Asbestos Cement Ltd, Vulcan House, Nicol Road, Ballard Estate, Bombay, 235 Canning Street, Calcutta, The Mall, Lahore 18, 2nd Lane Beach, Madras, Sri Ali Rd, Patna

J Khushaldas & Co, 77-79, Nagdevi St, Bombay

Kantilal Bhogilal & Co, 63, Nagdevi Cross Lane, Bombay 3

Karimji Ebrahimji Aiswala, 120, Abdul Rehman St, Bombay.

Merchant Bros, Nagdevi St, Bombay

Motilal Kalandas & Co, 80, Nagdevi St, Bombay

Pioneer Magnesia Works Ltd, Chartered Bank Building, Fort, Bombay

U Asbestos & Clay Supply Co., 88-90, Abdul Rehman St, Bombay 3 Factory—Udaipur

**CALCUTTA**

A, N Hussunally & Co, 28, Strand Road, Calcutta

A & N. Banerjee Co 84-A, Clive St, Calcutta

Asbestos & Belting Co, Ltd, 2, Clive Ghat Street, Calcutta, Asian Building, Graham Road, Ballard Estate, Bombay

B B Chatterjee & Co, 40, Strand Road, Calcutta

Bell's Asbestos & Engineering (India) Ltd, 8, Clive St, Cal

Bombay Company Limited, 20, Belvedere Road, Cal

British Engineering Stores Ltd, 98-4, Clive Street, Calcutta

Don Watson & Co, Ltd, 19, British Indian St, Calcutta

Ellerman's Arakan Rice & Trading Co, Ltd, 4, Famine Place, Calcutta

India Supply Agency Ltd, 8, Canning St, Calcutta.

Khaitan Sons & Co, 1, Commercial Buildings, Clive Street, Cal

R G Ghoshal & Co, 84-A, Clive Street, Calcutta

Roberts McLean & Co, Ltd, 101, Clive St, Calcutta

S K Sen & Co, 13, Kailas Kavi-raj Lane, P O Beadon Street, Calcutta

Factory—22-1, Gangulipara Lane, P O Belgachia, Calcutta

Mfrs of Asbestos Boiler Composition

S P De & Sons, 84A, Clive St, Calcutta

Sew Dayal Ramji Das, 130, Mechua Bazar St, Calcutta

William Jacks & Co., 10, Clive Street, Calcutta

**CENTRAL PROVINCES**

Asbestos Cement Limited, Ky-moie, Via—Jukehi, G I P

**UNITED PROVINCES.**

Asbestos & Belting Co, Ltd, Canal Range, Cawnpore

Hafeezul Hassan Ahmeddin, Baia Bazar, Bareilly

Kamdar Bros & Co, La Touche Road, Cawnpore

Mill Stores Trading Depot, La Touche Road, Cawnpore.

**ASPHALT, PITCH, TAR, Etc. DEALERS.**

Bitumen Emulsions (India) Ltd, Hide Road, Kidderpore, Calcutta Br—Lahore Cantt

Braithwaite & Co (India) Ltd, Mulund, Bombay (Bitumen)

Corporation of Calcutta's Asphaltum Plants, 6-1 Palmer Bazar Road, Entally, Calcutta

H Mumtaz & Co., 1, Colootola Street, Factory—11, Swinhoe Lane, Ballygunge, Calcutta

McKenzie Ltd, Spui Tank, Madras

Mohd Rafiq Mohd Hanif, Meston Road, Cawnpore (Tal)

Ratilal Shantilal, La Touche Road, Cawnpore (Coaltar)

Sethi Brothers, Hna Mandi, Ferozepore City, Pb. Works.—Railway Road, Kasur

Standard-Vacuum Oil Co, 6, Church Lane, Calcutta

**MINERALS, SALT, COMMERCIAL PRODUCTS ANALYSED.**  
**INDUSTRIAL RESEARCH LABORATORY, 22, R G. Kar Rd., Calcutta**

**ASTROLOGICAL & ALLIED BUREAUS.****BENGAL**

P. K. Goswami, P. O. Bally  
Howrah  
Rupnarayan Stores, Rupnarayan  
Lane, Halderpara, Chandernagore,  
Hooghly Dt.

**BOMBAY CITY**

Universal Astrological & Statistical  
Bureau, Flat No 73-78,  
Mahendra Mansions, Museum  
West, Fort, Bombay

**CALCUTTA**

All India Astrological & Astronomical  
Society, 105, Grey Street,  
Calcutta  
National Institute of Psychology,  
402, Upper Chitpui Road, Cal  
Swami Premnanda Ashram, Bar-  
nagore, Calcutta

**INDIAN STATE**

C. D. Krishnaswami, Channarayana-  
patna, Hassan Dt., Mysore  
State

**MADRAS PRESIDENCY**

Eastern Astrological Hall, Main  
Road, Vizagapatam  
Great Indian Astrological Hall,  
Kashimkota, Dt. Vizagapatam  
Vivegu Astrological & Palmis-  
trical Bureau, Bondapalli P. O.,  
Vizagapatam

**PUNJAB**

Shri Bhugusanghita Jyotish Kar-  
yalaya, No 11, Ludhiana

**UNITED PROVINCES.**

Astrological Research Hall, House  
Katia, Benares City  
Dhanwantari Bhandari, Gyanbapi,  
Benares

**ATTAR MANUFACTURERS.**

(See also Perfumery Manufacturers)

Ashgar Ali Mohd Ali, Lucknow  
Chhediram Moolchand, Perfumery  
Kothi No 22, Kanauj  
Devi Prasad Sunderlal, Kanauj.

Mathura Prasad Suraj Prasad,  
Kanauj  
S. Ramasami, Kottaiyur, Ramnad  
Sitharam Ayodhya Prasad, Kanauj

**AUCTIONEERS.****BOMBAY CITY**

Bennett & Co, 120, Apollo Street,  
Bombay  
Crawford & Co, 122, Apollo St,  
Bombay  
Kay & Co, 42, Kattau Bldg, Custom  
House Road, Fort, Bombay  
Menesse & Co, Great Western  
Bldgs, Appollo St, Fort, Bom-  
bay.

**CALCUTTA.**

Calcutta New Exchange Co, 309,  
Bowbazar Street, Calcutta  
Chowringhee Sales Bureau, 3A,  
Chowringhee, Calcutta  
City Exchange Company, 21, Royd  
St & 168, Dharamtola St, Cal  
Egbert Andrew's Auction Mart,  
161, Dharamtala St, Calcutta  
Mackenzie Lyall & Co, 5, Mission  
Row, Calcutta, 24-5, Alipore  
Road, Alipore, Calcutta

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*World Renowned Astrologer,*

"Goswami Lodge," P.O. Bally, Dist. Howrah

Giam—"Goswami-Lodge"

Phone—Howrah 705

Staynoi & Co, 62A, Free School Street, Calcutta  
Wellesley Auction Mart, 29, Wellesley St, Calcutta

#### CENTRAL PROVINCES

Jackson's Auction & Furniture Mart, Jubbulpore, C P

#### DELHI.

Basant Singh & Co, Subzi Mandi, Delhi

Kishorilal & Sons, Punchgun Road, Delhi

Niada! Mall & Rangolal, Hamilton Road, Delhi

S M G Beatty Ltd, Connaught Place, Delhi

#### INDIAN STATES.

Ismail Bros, Nilgiri Rd, Mysore

#### KARACHI

J H Jagus & Son, Napier Street Camp, Karachi

#### MADRAS CITY

Cousin & Co, 17 & 18, Broadway, Madras.

Dowden & Co, 14, Francis Joseph Street, Madras

Murray & Co, 5, Thambu Chetty St, Madras

Ramanatham Brothers, 47 & 48, Swami Naick Road, Madras

#### UNITED PROVINCES.

Empire Furnishing House, Mall Road, Cawnpore

Gopi Chand & Sons, Thatheri Bazar, Benares City

Jacob & Sons, Hazratganj, Lucknow

P Stamwill & Co. Mall Road, Cawnpore

Sohan Lall & Sons The Mall, Cawnpore

### AYURVEDIC & HAKIMI MEDICINE DEALERS.

#### AJMER-MERWARA

Pratap Ayurvedic & Phai Works Ltd, Naya Bazar, Ajmer.

Shri-Rajasthan Ayurvedic Pharmacy, & Medical Hall, Ajmer

#### BENGAL

Adarsha Oushadhalaya, Dacca Ayurved Chemical Works Ltd., Manoharpur, Comilla

Ayurved Pharmacy, Dacca

Dacca Ayurvedia Pharmacy Ltd, 8, 8-1, Armenian St, P O Babu Bazar, Dacca

Dacca Shakti Oushadhalaya, Swami Bag, Dacca Bi — Calcutta, Madras, Patna, etc

Indo-Burma Pharmaceutical Works, Walton Road, Dacca

Kaviraj Goswami's Ayurvedic Pharmacy, Malda

National Ayurvedic Pharmacy, 41, Revati Mohan Das Road, Dacca

Occult Chamber, 24, Wyei St, Wari, Dacca

Oriental Laboratories, P O Bally, (Howrah), Factory 162, Goswami Para, Bally, Howrah

Sadhana Oushadhalaya, Dacca

#### BIHAR

Mitla & Co, Raja Sruendia Narayan Road, Bhagalpur

Rai Sahib K Bose & Co, Muza-farpur

Swami Swaiupananda Paramhansa, Ajachak Ashrama, P O Chas, Manghum Dt

Vaidyarat Akhil Kishore Ram P O Kati Sarai, Gaya

#### BOMBAY CITY.

Ayurvedashram Pharmacy Ltd Opp Kandewadi Naka, 130, Gungum Road, Bombay

Ayurved Rashashala Poona Ltd, Opp Majestic Cinema, Gungum Road, Bombay

Dave Chemical Works & Dave Ayurvedic Pharmacy, 389, Kalbadevi Road, Bombay

Kaviraj R C Sarkar B A, Vardya Kabanjan, 413-A, Kalbadevi Road, Bombay

Zandu Pharmaceutical Works Ltd, Gokhale Rd, Bombay 14 Branch — Kalbadevi Road, Bombay (2)

BOMBAY PRESIDENCY

Bhaskar Prakash Works, P O Hanchli, Briarpur Dt

Dattatraya Krishna Sandu Brothers, Chembur, Bombay Sub Distt

Gujrat Ayurvedic Pharmacy Richey Road, Ahmedabad

Jethalal D Dave Vaidya, Daya Chemical Works, Ahmedabad

Raghunath Ayurvedic Pharmacy, Richey Road, Ahmedabad

Unjha Ayurvedic Pharmacy, Gandhi Road, Ahmedabad

Vasudevananda Ayurvedic Oushadhalaya, Near Lal Bag, Dhulha, W Khandesh

### CALCUTTA

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- City Bank Ltd, 6, Clive St, Calcutta
- City Bank Ltd, Tiruvandium Br Nagercoil, Kottayam, Thiruvalluvar, Palamcottah & Nazareth
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- Commercial Co-operative Bank Ltd, Ajmer
- Compton National D'escompte de Paris, 24, Bruce Street, Fort, Bombay
- Comrade Bank Ltd, 15, Clive Row, Calcutta B Chittagong, Sylhet
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- Cox & King Co, 5, Bankshall St, Calcutta Branch —Hornby Rd, Bombay
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 Eastern Traders Bank Ltd, H O Noakhali Cal Office 97, Clive Street Br — Dacca, Chittagong, Chandpur, Choumuhani (Noakhali), Ballygunj  
 Eastern Union Bank Ltd, Sadaghath Road, Chittagong, 9, Clive Street, Calcutta  
 Erode Bank Ltd, Agriaharam St, Erode  
 Federation Bank of India Ltd, 57, Radha Bazar St, Calcutta  
 Frontier Bank Ltd, Bannu, N W. F Province  
 Gauhati Bank Ltd, Gauhati Br — Tezpur, Golaghat, Jorhat, Baipeta  
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 Girish Bank Ltd, H O 21-A, Canning Street, Calcutta B — Agartala (Tripura State), Gangasagar (Tippera), College St, (Calcutta), Champdanu (Hooghly), Serajgunj (Pabna), Bhowanipur (Cal), Chinsurah (Hooghly), Mymensingh, Bhannugach (Sylhet), Udaypur (Tripura State), Uttarpara (Hooghly), Saikia (Howrah), Dacca

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 Lane, Calcutta B. Bombay,  
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Gujarati Co-operative Bank Ltd,  
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Hindusthan Bank Ltd, 15, Chitta-  
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Hongkong & Shanghai Banking  
 Corporation, Post Box No 158,  
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Hooghly Bank Ltd, 43, Dha-  
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 lore, Erode, Guntur, Kumbako-  
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 chery, Tinnevely, Trivan-  
 drum, Tuticorin, Vellore, Viza-  
 gapatam, Vizianagram, Burma  
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 lay, Moulmein, Myingyan, Ran-  
 goon

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 Bangalore, Bangalore Cantt,  
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- Karur Hindu Bank Ltd, Bazar Street, Erode
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- Keralavilasam Bank Ltd, Thuvalla Travancore B —Alleppey, Cochin, Calicut, Ernakulam, Mathandom, Peermade, Thuvalla, Thivandium & Tinnevely
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- Khulna Kayastha Bank Ltd, Khulna Branch —19, Strand Road, Commercial Bldgs, Cal
- Khunti Cential Co-operative Banking Union Ltd, Khunti
- Konaseema Co-operative Cential Bank, Amalapuram, E Godavary
- Krishnaiam Baldeo Bank, Sarafa Lashkar, Gwalior,
- Kuber Bank Ltd, 3 & 4 Hare St, Cal B —Dacca, Kalimpong, Shiguri, Santipuri
- Kumbakonam Bank Ltd, 29, Town High School Rd, Manargudi, S I
- Land Mortgage Bank Ltd., Erode
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- Loyal Bank Ltd H O Chandpur, Tippera Br —29, Strand Rd., Calcutta, Puri Bazar, (Tippera) and Munshiganj (Dacca)
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- Madhwa Bank Ltd, Dhairwar
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- Madras City Co-operative Bank Ltd, 12, Mukatal Rd, Vepeiy, Madras
- Madras Peoples Bank Ltd, 118, Aimenian St, G T, Madras
- Madras Provincial Co-operative Bank Ltd, 379, China Bazar, Road, Madras
- Mahajati Bank Ltd, 15, Clive Street, Calcutta
- Malabar National Bank Ltd, Trichur, Cochin State
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- Model Bank of India Ltd, Lake Market, Ballygunj, Calcutta
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- Muffosil Bank, Gorakhpur
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- Mymensingh Bank of Commerce & Industries Ltd, 135, Princep St, Calcutta
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- Nadar Bank Ltd, 38, Eniabalu Chetty St, Madras
- Nagpur Co-operative Central Bank Ltd, Nagpur
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- National Exchange Bank Ltd.,**  
(Estd 1928), 3 & 4, Hare St.,  
Calcutta
- National Mercantile Bank Ltd.,**  
30, Clive Street, Calcutta Br.—  
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ganj, Mymensingh, Lalmonir-  
hat, Kishoreganj, Kailasahar,  
Alipur-Doars
- National Savings Bank Ltd, Hall**  
Bazar, Amritsar
- National Security Bank Ltd 15,**  
Jadu Bhattacharjee Lane, Kali-  
ghat, Calcutta Br.—Chittagong,  
Chetla (Alipore), Cossipore
- Nederlandsch Indische Handels**  
Bank, (Netherlands India Com-  
mercial Bank), 1, Royal Ex-  
change Place, East, Calcutta
- Nedungadi Bank Ltd, Robinson**  
Road, Calicut Br.—Ottapalam,  
Palghat, Badagara, Tirur, Er-  
nakulam, Trichur, Alleppey,  
Mangalore, Tellicherry, Tri-  
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- New Standard Bank Ltd, Comilla**  
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Tinsukia, Chhatak, Asansol,  
Burdwan, Faridpur, Khulna,  
Mymensingh, Tangail, Court,  
(Comilla), Calcutta, Ranchi,  
Jorhat
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10, Clive St, Cal Br South  
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(Behar), Benares, Chandpur,  
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- Omissa Bank, Tulsipur, Cuttack**
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- Palai Central Bank Ltd., Prince**  
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Row Br.—Hatkholia (Cal),  
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- Poona Central Co operative Bank**  
Ltd, Laxmi Road, Poona City
- Prabartak Bank Ltd, 61, Bow-**  
bazar St., Calcutta Br.—Chit-  
tagong & Chandernagore,
- Premier Bank of India Ltd, 327,**  
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- Presidency Industrial Bank, Ltd.,**  
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- Punjab & Sind Bank Ltd., H O Amritsar Branches — Gujranwala, Rawalpindi Cantt, Rawalpindi City, Lahore, Sialkot City, Lyallpur & Ludhiana Sub Office — Jaranwala & Lahore City
- Punjab Zamindar's Bank Ltd, Lyallpur, Punjab
- Puri Bank Ltd, 2, Dalhousie Sq, East, Calcutta
- Puri Central Co-operative Bank, Kutchery Road, Puri
- Punjab Desbandhu Pallmangal Bank Ltd, 21A, G T Road, Near Bangabasi Cinema, Howrah
- Rajkhat Industrial Bank, Jalpaiguri
- Raniwala Bank, Ferozabad, Agra
- Reliance Bank Ltd, Comilla. Br—15, Clive Street, Calcutta and 268, Nawabpur Road, Dacca
- Sahukara Bank Limited, (Estd 1912), H O Ludhiana Br — Amritsar, Ahmedgarh, Batala, Gujranwala, Jagadhri, Nawanshahi (Doaba), Maleikotla & Rewari, Agencies all over India
- Saffai Bank Ltd, 88, Colootola Street, Calcutta
- Security Bank Ltd Chowmohani, Noakhali Br —14-2, Old China Bazar, Calcutta, Dacca, Comilla, Noakhali, Raipura
- Shamrao Vithal Co-operative Bank, Ltd, Gamdevi, Grant Road, Bombay 7.
- Shillong Banking Corporation Ltd, Shillong
- Simla Banking and Industrial Co, Ltd, The Mall, Simla
- Sind Provincial Co-operative Bank Ltd, Serai Rd, Karachi
- Sonai Bangla Bank Ltd, 6 & 7, Clive St, Calcutta
- Sound Bank of India Ltd, H O Chittagong Cal Office —13, David Joseph Lane, Br—Rangoon, Akayab, Bassein, Dacca, Chowk Narayanganj, Satkania, Fatikchauri, Pahatoli, Lama Bazar (A B R)
- South India Bank Ltd, Cochin
- Southern Bank Ltd, 14, Clive Street, Calcutta Br —Bhowanipore, Shambazar, Buirabazar, Khulna, Basulhat & Budge Budge (24-Peigs)
- Sree Bank Ltd, 3-1, Bankshall St, Calcutta
- Standard Bank Ltd., Head Office Sylhet Main Office 22, Strand Rd, Calcutta Br —Habiganj, Kaimangan, Kishoreganj, Shillong, Silchar, Maulvi Bazar
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- Suburban Bank Ltd, 22, Strand Road, Calcutta Br —Tallah, Dum Dum, Barnagore & Alam-bazar
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 Travancore Yogakshema Bank Ltd, Kottayam  
 Tripura Modern Bank Ltd, Regd Office—Akhaia (B & A R), Chief Office—Agartala, Calcutta  
 Office 6, Clive St, Cal Bi — Brahmanbaria, Simmangal, Moulvibazar, Hailakandi, Tezpur, Karimganj, Dacca, Kuti, Habiganj, Nethakona, Silchar, Badarpur, Dibrugarh, Comilla, Bajitpur, Mangaldai, Ajmiganj, & North Lakhimpur (Assam) Sub-Br — Shamseeragat, Kulaura, Chawk-bazar (Dacca), Dhekiajuli & Lakhimpur  
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Entally Market (Calcutta) and Burdwan

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 Local Br — Cotton Exchange Bldg, Kalbadevi & Katha Bazar, Mandvi, Bombay Mofussil Branch at Rajkot (Civil Station)

Union Industrial Bank Ltd, Rasala Rd, Hyderabad, Sind  
 Union Industrial Bank Ltd, 6, Clive St, Calcutta

United Industrial Bank Ltd, 7, Wellesley Place, Calcutta Bi — Barabazar, Shyambazar, Calcutta, and Narayanganj, Dacca  
 Universal Umpire Bank Ltd, Chiniot, (Punjab) Bi — Lahore

Vysya Bank Ltd, Bangalore City Bi — Davangere, Hindupur, Chitaldooog

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 Worium Commercial Bank Ltd, Trichinopoly.

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Ajmer Central Co-operative Bank, Club Rd, Ajmere

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Lewis & Taylor Ltd, Sohrab House, Hornby Road, Bombay, 6, Church Lane, Calcutta  
M H Dinshaw & Co., Apollo St., Bombay  
Minoo Mill Supply Co., 20, Apollo Street Fort, Bombay  
Parikh Bros., & Co., 45-47, Apollo Street, Bombay  
Reliance Trading Co., 25, Lahari Chawl, Bombay  
Turner Hoare & Co., Ltd Gate-way Bldg., Apollo Bunder, Bombay.

#### BOMBAY PRESIDENCY.

**Bengal Bombay Agency Ltd.,**  
Kapasias Bazar, Motilal Mansion, Ahmedabad (Agents & Dealers)

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A N Hussunally & Co., 28, Strand Road, Calcutta  
**Asia Engineering & Industries Co. Ltd.,** 11, Ezra St, Calcutta (Agents & Dealers)  
Balmer Lawrie & Co Ltd, 103, Clive St, Cal Br — Bombay  
Elford Edwards Ltd 7, Old Court House St Calcutta.  
Imperial Belting Co 11, Clive St, Calcutta  
Indian Rubber Gutta-Percha & Telegraph Works Co Ltd 7, Old Court House St Calcutta

Kilburn & Co., 4, Faulke Place, Calcutta  
Mc Gavin & Co 30, Strand Rd., Calcutta  
Mill Stores & Belting Co, 30-1, Clive St, Calcutta  
Oriental Mercantile Co., Ltd, 36B, Pratapaditya, Road, Calcutta  
Pasricha & Co., 3, Nawab Badrud-din Lane, Calcutta  
Roberts McLean & Co., Ltd 101, Clive St, Calcutta

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C Didwania, Kashmeregate, Delhi

#### INDIAN STATES

P Peter & Sons, Alleppey, Travancore (Also con belting, coir mats and matings)

#### KARACHI.

Ram Chand Jethmal, Bunder Rd., Karachi

#### LAHORE.

M H Fazal Hossain & Co Ahmadya Building, Brandreth Road, Lahore  
M Muzafer Hussain & Sons. Mochi Gate, Lahore

#### MADRAS CITY

Anand Brothers, 334, Thambu Chetty St, G T Madras (Agents for Bengal Belting).  
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Parry & Co Box No, 12 Madras  
William Jacks & Co. 37, Second Lane Beach, Madras

#### PUNJAB.

Kidarnath & Co., Ghassimandi, Ludhiana

#### UNITED PROVINCES

C E Cooling Civil Lines, Cawnpore  
Upper India Leather Belting Co., 14-69, Civil Lines, Cawnpore

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Card Clothing and Belting Ltd, 78, Homji St, Elphinstone

Circle, Fort, Bombay

Western India Tanneries Ltd, 2A, Dharavi Rd, Bombay, 17

**FOR EXPERT PLANNING OF CHEMICAL FACTORIES write to :—**  
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Ahmedabad Chrome Tanning Co.,  
Pir Mahomed Shah Road,  
Ahmedabad.

**CALCUTTA**

Bell's Asbestos & Engineering  
(India), Ltd., A3, Clive Bldgs,  
Clive St, Calcutta

**Bengal Belting Works Ltd.,**

2, Dalhousie Square East, Cal  
Burkmyre Bros, 8, Clive Row,  
Calcutta

East India Trading Co, 2, Church  
Lane, P O Box No 487, Cal

India Rubber Gutta Percha &  
Telegraph Works, Co, Ltd, 7,  
Old Court House St, Calcutta

Jessop & Co, Ltd, 93, Clive Str,  
Calcutta

Latex Treatments Ltd, 10, Govt  
Place East, Calcutta

Lewis & Taylor, Ltd, 6, Church  
Lane, Calcutta

**LAHORE**

Calcutta Mill Stores Co, 34,  
Brandieth Road, Lahore

Leather Belt Factory (1935), Ltd,  
Outside Delhi Gate, Lahore

Punjab Chrome Tannery, Grand  
Trunk Road, Lahore

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(S India)

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Pan, Mahoba, U P

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Bhairatpur

Jethomal Udhawddas, Jhoona Mar-  
ket, Karachi

K Fakrudin Sahib, Market,  
Adoni

Kanj Monji, New Line, Porban-  
dar, Kathiawar

Mathura Das Durga Prasad, Ma-  
hoba, U P

Nanigopal Pal, Madaihat, Barul-  
pur, Bengal

Paisu Mallik, Machhua Bazar,  
Cutlack

Pyarelal & Cheddilal Sah, Kai-  
khana Bazar, Almoira

Ramji Damodar, New Line, Por-  
bandar, Kathiawar

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Bans, Delhi

Shantiram Pal, Betanga, Aikandi,  
Faridpur

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S I

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Amratlal Mohanlal, 109, Khand  
Bazar, Bombay

Asoka Betelnut Factory Com-  
batoie

B R Chandrasekharayya & Co,  
Shumoga

Bepin Chandra Koiri, Khulta,  
Baneswar, Cooch Behar

Chintamani Satappa Buz,  
Raibag, P O, Belgaum

Diwan Haji Pirmohamed Musa,  
4, Amratola St, Calcutta

Gopiballav Jibanballav Saha, P O  
Hajiganj, Tippera Dt

Han Habib Haji Peer Mahomed,  
25, Amratalla Street, Calcutta

Kali Kumari Saha, P O Choumu-  
hani, Noakhali Dt

Keshuidas Harilal & Co, Opp  
Jumma Masjid, Muchi Guly,  
Bombay

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cial Buildings, Clive St, Cal

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Barisal

Rajani Kanta Bakshi, Rajahat,  
Rungpui

Rudraya Veeraya Hanagodanath,  
Byadgi, M. S M Ry.

S K S A. Assanmeera Sahab  
Tharaganar Avl, Tuticorin

Shah Jadavji Moraji, 316, Kha-  
rek Bazar Mandvi, Bombay

Sontha Sonappa & Sons, Banga-  
lore Road, Bellary

T. P. M. Peer Mohamed Rowther  
Mela Mada Street, Tirunelveli  
Town (S I)

**FOR CONSTRUCTIONS OF FORMULAS & RECIPES write to:—  
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Dawson & Co. 122 Paisee Bazar  
Street, Bombay 1

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Street, Calcutta

K A Gage & Sons Ludhiana

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Raniganj, E I Ry  
Modern Biscuit Manufacturing  
Co, Ganga Sagar, B & A Ry

Renown Biscuit Co, Connaught  
Road, Byculla, Bombay,

**BOMBAY PRESIDENCY**

Kitaddur Bros, Belgaum  
Sathe Biscuit Factory, Poona 2

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Brahman Biscuit Co, Kadamkuan,  
Bankipur P O, Patna.

**CALCUTTA**

Atlas Biscuit Co, 13-2, Raja Ma-  
nindia Road, Calcutta

Banua Bakery, 128A, Dharamtala,  
Street, Calcutta

Bengal Biscuit Factory Ltd, 2B,  
Bagmati Lane, Calcutta Office  
20-1-2, Chittaranjan Avenue  
(North), Calcutta

Bharat Biscuit Factory, 55, Cann-  
ing Street, Calcutta

Bombay Biscuit Co, 99/3, Cann-  
ing Street, Calcutta

**BOMBAY CITY**

B N & Company, Hathibaug,  
Love Lane, Mazagaon, Bombay  
Carr & Co Ltd, Sudama House,  
Ballard Estate, Bombay Also  
Waterloo St, Calcutta

Huns Dewan & Co, 154/160 &  
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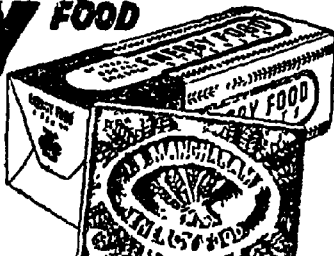


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Jewel Biscuit Factory, 22/1/2,  
Belgachia Road, Calcutta  
Kohinoor Biscuit Co, 35, Chatta-  
wala Gali, Calcutta  
Lily Biscuit Co, 3, Ram Kanto  
Sen Lane, Ultadanga, Calcutta  
**Santosh Biscuit Co.,** 8, Sukea  
St, Calcutta Factory.—121 &  
177, Manicktola Main Rd, Cal  
**Standard Biscuit Co. Ltd.,** 47-A,  
Chittaranjan Ave (South), Cal  
Sudha Biscuit Co, 9, Ultadanga  
Main Rd, Calcutta.

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Delhi Biscuit Co Ltd, Delhi  
Ideal Biscuit Co, Paharganj,  
Delhi  
Punjab Biscuit Co. Fatehpuri  
Bazar, Delhi

**INDIAN STATES**

Baroda City Bakery Jumma  
Masjid, Mandvi, Baroda  
K R Biscuit Co, Kottayam,  
Travancore  
Royal Biscuit Factory, Bowring-  
pet, Kolai, Mysore

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Abdul Hussein Jaffary Gandia,  
Marriott Road, Karachi  
Carr & Co, Ltd, McLeod Road,  
Karachi

Jehangir Rustumji Irani & Co,  
Freire St, Karachi.  
National Biscuit Factory, Mitha-  
dar, Karachi  
Soomai Adam & Co., Freire St,  
Camp, Karachi

**MADRAS CITY.**

Balabai Biscuit Factory, Chinta  
dripet, Madras.  
New Calicut Biscuit Factory, 26,  
Harris Road, Puduket, Madras

**MADRAS PRESIDENCY.**

Regale Baking Co, Cannanore.  
Royal Biscuit Co, Madura.  
Vishnu Biscuit Factory, Negapa-  
tam. Tanjore

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National Biscuit Co, Multan  
National Biscuit Factory, Bazar  
Saidnagrian, Gujranwala

**SIND.**

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Annapurna Biscuit Co. Meston  
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Golden Biscuit Factory, Sipat  
Bazar, Meerut  
Kashi Hindu Biscuit Factory,  
Dalmandi, Benares City  
Tibbi Biscuit Factory, La Touche  
Road, Lucknow

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Hide Road Kidderpore, Cal Br  
Lahore Cantt  
D Waldie & Co, Ltd, Al Chive  
Bldgs, Calcutta

India Paint Colour & Varnish Co,  
Ltd. 161/1 Harrison Road,  
Jenson & Nicholson (India) Ltd,  
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Kaycee & Co Ltd, Bharat Bhaban,  
Central Avenue, Calcutta.

**BLEACHING POWDER MANUFACTURERS.**

Rohtas Industries Ltd (Chemical  
Industry), Dalmianagar, Shaha-  
bad

Tata Chemicals Ltd, Mithapur,  
Kathiawan (Under Construc-  
tion)

**BLOCK MAKERS, DIE SINKERS & ENGRAVERS.**

(See also Commercial Artists).

**BOMBAY.**

Ahoora Photo Engraving Co,  
41-45, Meadows St, Fort, Bombay

Express Block Designers, 19, Sir  
Phirozshah Mehta Road, Fort,  
Bombay

**FOR CONSTRUCTIONS OF FORMULAS & RECIPES write to :—**  
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G S. Trilokekar's Fine Art Works, 31, Kolbhat Lane, Kalbadevi Rd, Bombay 2

Novelties Mfg Co, 207, Kalbadevi Road, Bombay (Embosser)

S Parth & Co, 9, Chandra Mohal, Girgaum, Bombay 4

Sun Process Works, Ltd, 8, Swadeshi Mills Compound, Off Charni Road, Bombay

Vaidya Bros, Kalbadevi, Bombay

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Kashinath Tukaram Chapheker, P O Chinchani, Dt Thana (Die maker)

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Amitava Trading Co, 351, Upper Chitpui Road, Calcutta

**Asok Bagchi's Art Studio,** 165, Cornwallis Street, Calcutta.

B Dass Bros, 28-4A, Beadon Row, P O Beadon St, Calcutta

Bengal Autotype Co, 213, Cornwallis St., Calcutta

Bengal Phototype Co, 58-2, Harrison Road, Calcutta

Bharat Phototype Studio, 72-1, College St, Calcutta

Biswanath Studio, 1, Garanhatta St, Calcutta

C H Aran & Co, 235-1, Bowbazar St, Calcutta

Calcutta Engraving Co, 10-2, Malanga Lane, Calcutta (Engravers & Embossers)

Calcutta Photo Engraving Co, 157B, Dhuniumtolla St, Cal

Calcutta Phototype Co, 6, Chowringhee Rd, Calcutta

Dass Bros, 14, Garanhatta St, Calcutta (Block Maker & Printers)

Eastern Process Works, 121B, Sitaram Ghosh St, Calcutta

Empire Halftone Company, 36, Harrison Road, Calcutta

Indian Photo Engraving Co, 217, Cornwallis St, Calcutta

Industry Press Dept, 22, R G Kar Road, Calcutta.

King Halftone Co, 22, Wellington St, Calcutta

N Dey & Co, 1, Bhim Ghose Bye Lane, Calcutta

**N. Mitra & Co.,** 33-B, Harrison Road, Calcutta

New Halftone Company, 1, British Indian St, Calcutta.

P Datta & Co, 186, Bagmar Rd, P O, Narkeldanga, Calcutta

Photographic Stores & Agency Co, Ltd, 154, Dharamtala St, Calcutta

Phototype Studio & Publicity Co, 37, Shikdai Bagan St, Cal

Prabartak Halftone Works, 52-3, Bowbazar St, Calcutta.

Ray Brothers, 78, Harrison Road, Calcutta Factory —65-1, Harrison Road, Calcutta

Sen & Co, 3B, Beadon Square, Calcutta

Star Halftone Co, 158E, Dharamtolla St, Calcutta

Statesman Ltd, Chowringhee Square, Calcutta, Connaught Road, Delhi

Tower Halftone Co, 14C, Kapaltala Lane, Calcutta

U Ray & Sons, 117-1 Bowbazar St, Calcutta

#### CENTRAL PROVINCES.

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Singhai Mojilal & Sons, Kamania, Jubbulpore

Vinaya Metal & Industrial Home, Akola (Berar)

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Calcutta Girish Halftone Co, Katra Baryan, Delhi

#### KARACHI

Shivram R Mande & Sons, Swami Narayan Bldg, Bunder Rd, Karachi (Also Wooden types etc)

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Ramchand & Co, Nila Gumbad, Lahore

#### MADRAS

Dixon Process Studio, 22, Broadway, Madras

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Hindu Process Studio, Hindu Office, 100, Mount Rd., Madras  
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14, Jones St., Mannady, Madras  
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**SIND.**  
Hundiaj & Bros., Chancharkh St Sukkur, Sind.

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Sunshine Advertising Palace, Aminabad Park, Lucknow (Also Cinema Slides)

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(Also see under Ship Builders).

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Ganges Engineering Works, Bally, Howrah  
Kampilli Bros., Bastian Rd., Cochin.

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Duncan Stratton & Co., 5 Bank Street, Bombay  
Express Bobbin Works, 69, Beach Rd., Quilon, Travancore  
Gannon, Dunkerley & Co., Ltd., Chartered Bank Bldgs., Bombay  
General Stores Supplying Co., 137, Canning St., Calcutta  
Kirk & Co (Blackburn), Ltd., Shahpur House, Cawasji Patel St., Fort, Bombay.  
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M Abdulla & Co., Valka Road, Verabhal, Kathiawar  
Parikh Bros & Co., 45-47, Apollo St., Fort, Bombay  
Phiroz N Motabbhoy & Co., Ltd., Motabbhoy Bldgs, 146, Meadows St Fort, Bombay  
Rao & Sons, Auvaneeswaram, Travancore  
Roberts McLean & Co., Ltd., 101, Clive St., Calcutta  
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Wilson Bros Bobbin Co., Ltd., 41, Nicol Road, Ballard Estate Bombay

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Daniel Adamson & Co., Ltd A-3, Clive Bldgs, 8 Clive St., Cal  
International Combustion (India), Ltd, 7, Church Lane, Cal

Jessop & Co., Ltd, 93, Clive St., Calcutta  
John Thompson Wolverhampton (India) Ltd, Tower Bldg, Ballard Estate, Bombay  
M H Dinshaw & Co, 105, Apollo St, Fort, Bombay  
Marshall Sons & Co (India), Ltd, 99 Clive Street, Calcutta  
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Amal Iron & Steel Works, Darukhana, Mazagaon, Bombay

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 Gosta Behary Ghosh & Co, 61, Clive Street, Calcutta.

J. D Brothers Ltd, 29-33, Lohar St., Bombay.  
 Jethalal Kurbanhusen & Co., 21-23, Sutar Chawl, Bombay 2  
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 U N Ghose & Co, 61, Clive Street, Calcutta

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Baroda Bolt & Engineering Co., Goya Gate, Baroda

Bhattacharjee & Co, 61, Clive Street, Calcutta

Eastern Metal Works, 58-1-1A, Raja Dinendra St, Calcutta

Khem Chand Rajkumar Metal Works, Jullundur City

National Bolts & Rivets Ltd, 233, Behlhos Road, Howrah Mg Ag  
 Dass Bros & Co Works 44, Madhusudhan Pal Choudhury Lane, Howrah (Phone How 333)

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Universal Screw Factory, Chhaharta, Amritsar

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para, Bally, Howrah

Kadamboor Bone Mill, Kadam-  
boor, Tinnevely.

Shahganj Bone Mills, Agra

South India Bone Mills, Samalkot,  
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Pioneer Book Binding House,  
Silchar.

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Guardian Press, Khetwadi Main  
Road, Bombay

#### CALCUTTA.

Basanti Binding Works, 50, Patal-  
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Book Binding Agency, 37, Shikda  
Bagan St., Calcutta  
Esraail Haque Chowdhury, 67,  
Baitakkhana Rd, Calcutta.  
Industry Press, 22, R G Kar Rd,  
Calcutta.  
Ishaque Uddin Bhuiya & Bros, 72,  
Baitakkhana Rd, Calcutta.  
Md Yunres Khan & Md Ishaque  
Khan, 67, Baitakkhana Rd, Cal  
Nilmoney Halder & Co, 11, Chit-  
tarangan Ave South, Cal  
Vivekananda Binding Works, 26,  
Sita Ram Ghose St. Cal

#### DELHI.

Delhi Printing Works. Chaori  
Bazar, Delhi

#### INDIAN STATES.

B V. Naidu, Jogenmohan Palace  
Road, Mysore  
City Binding Works, Sayyaji Rd,  
Lansdowne Bldg, Mysore  
K N Narasinghe's Printing &  
Binding Works, 3, Bakshi  
Narasappa's Temple Building,  
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Mahboobia Book Binding Factory,  
Nizar Shahi Rd, Hyderabad  
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11-A, Manavarthipet, Bangalore

#### KARACHI.

Pioneer Printing Press, Serai Rd,  
Karachi

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Sri Lakshmi Binding Works, 57,  
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Josua & Sons, L Balmatta,  
Mangalore, S Kanara  
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#### PUNJAB.

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Hill Side Book Binding Works,  
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Commercial Press, Parade, Cawn-  
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Ram Narain Lall, Katra Road,  
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(Regd), 47, Baitakkhana Road,  
Calcutta.

Ekramuddin Dewan & Sons, 48,  
Baitakkhana Rd, Calcutta

Favourite Book Cloth Mart, 12,  
Mitra St, Bombay.

Golam Akbar Khan & Co, 72,  
Baitakkhana Rd, Calcutta

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H Heptulla & Co, 162, Janjika  
St, Bombay, 3  
Jainuddin Ahmed & Co, 46, Bai-  
takkhana Rd, Calcutta  
K V Chavda & Co, Sekhsaria  
Bldg, Sandhurst Road, Bombay  
Lutfar Rahman Khan & Bros,  
100, Baitakkhana Road, Cal  
Moazzam Hossain Khan & Bros,  
68, Baitakkhana Rd, Cal

Modern Stationery Agency, 14-2,  
Old China Bazar St, Calcutta  
Mohar Khan, 103, Baitakkhana  
Rd, Calcutta  
N V Chavda & Co, Dwarkadas  
Mansion, Sandhurst Rd, Bom-  
bay.  
Sohmuddin Arshed Kazi, 49-A,  
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#### AJMER-MERWARA

Arya Sahitya Mandal Ltd, Shi-  
nagar Rd, Ajmer  
Datt Brothers, Kutchery Road,  
Ajmer  
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Jnana Mandal, Ltd, Kabichawia, Benares City	Ram Naram Lal, 2, Katra Road, Allahabad
Kapoor & Friends, 49, Johnston gunj, Allahabad	Ram Prasad & Bros, Etawah
Katvayani Publishing House 47, Misser Pokhara, Benares City	Sahitya Ratna Bhandar, 53A, Civil Lines, Agra
Kitabistan 17A, Kamala Nehru Road, Allahabad	Salig Ram & Sons, Baira Bazar, Aligarh
L Kidai Nath & Ram Nath, Meerut City	Saraswati Pustakalaya, Najibabad, Bijnoi
Lakshmi Book Depot, 17, Blunt Square, Lucknow	School Book Depot, Lala Ka Bazar, Meerut City
Lakshmi Narayan Agarwal, Hospital Rd, Agra	School Book Stores, Akbarpur, Fyzabad
Lucknow Bookstall, Huzratganj, Lucknow	Shri Saraswati Sadan Pustakalaya Kosi Kalan, Kuttra, G I P Ry
Lucknow Publishing House, Lucknow	Udvog Pustak Bhandar, Puna, Fyzabad
	Unnei India Publishing House Ltd, Literature Palace Lucknow
	Vedic Pustakalaya, Maithan Agra.

## BOOTS & SHOES MANUFACTURERS & DEALERS.

(Also see Rubber Goods Manufacturers).

### AJMERE-MERWARA.

Boot House, Madar Gate, Ajmer

Kistoormal & Sons, Ajmer

Osman & Co, Kaiserganj, Ajmer

Complete information on manufacturing all sorts of milk products is contained in "Milk & Milk Products." Re. 1/12. Industry Book Dept., Cal.

**BALUCHISTAN.**

Head & Footwear Co., Bruce Road, Quetta

**BENGAL**

Bata Shoe Co Ltd, Bata Nagai, 24 Fargis

Flex Foot Wear, Bogra Town

Manindra Nath Roy, Bara Bazar, Bankura

Pioneer Shoe Store, Rangpur

Punjab Stores, Bogra Town

**BIHAR.**

Johnson & Co, Dak Bangalow Road, Patna

Md Rafiq Shoe Factory, Station Road, Patna

"Paduka," Bakergunj, Bankipur P O, Patna

Royal Shoe Factory, Ranchi

**BOMBAY CITY.**

Allen & Co, Lehari House, Mahomedali Road, Bombay 3 Manufacturers of wellknown registered "Tiger" Brand leather Chappals & Sandals

Alliance Boot House, Wassiamull Building, Grant Rd, Bombay

Bata Shoe Co Ltd (Calcutta), Atlas Mills, Ready Rd, Bombay

Casango Shoe Saloon, Dhanraj Mahal, Apollo Pier, Fort, Bombay.

Han Abdulla Alabux, Patharia Palace, Mahomedali Road, Bombay

Jamnadas Jinabhai & Sons, Jamnadas Bldg, Vithalbhai Patel Road, Kumbhar Takda, Bombay

Moosa Bros, Patka Mansions, Bhendy Bazar, Bombay

**BOMAY PRESIDENCY.**

Abdul Majeed & Co, Panch Patti, Karoda St, Ahmedabad

Shamjibhai & Gordhandas, Kanpith, Surat

**CALCUTTA.**

Bata Shop, 15/1, Chowringhee, (Grand Hotel), Calcutta, 134,

Poonamallee High Rd, Madras; 15, Marshall Road, Egmore, Madras

Bengal Tanning Co, 30-14, Lower Chitpur Road, Calcutta

Central Rubber Works Ltd, 20B, Tangra Rd, Calcutta

Dutta & Co, 16/1, Shama Charan Dey Street, (College St, College Row & Shamacharan Dey St. Junction), Calcutta

Kamal Bros, College St Market, Calcutta Phone B B 2506

Leather House, E-85, College St Market, Calcutta

National Factory, 81, Bentinck Street, Calcutta (Rubber & Canvas)

New Punjab Tannery, 96, Ashutosh Mukherjee Rd, Calcutta

New Robin & Co, E-89, College St Market, Calcutta

Sadake Shoe Factory, 24, Lower Chitpur Road, Calcutta

Young & Co, 44, Chittaranjan Avenue, Calcutta

**CENTRAL PROVINCES**

Central Shoe Co, Station Road, Gondia, C P.

J A Rizvi & Co, Raipur, Factory —Bhatgaon

Kayum Bros, Resy Rd, Nagpur. Kedarnath & Co, Andherdeo, Jabulpore

**DELHI**

Baluja Boot House, Chandni Chowk, Delhi

Capital Boot House, Connaught Place, New Delhi

Madras Chappal Stores, Chandni Chowk, Delhi

Pioneer Boot House, Chandni Chowk, Delhi

Society Footwear, New Delhi

Swadeshi Shoe Factory & Leather Works, Ballimoran, Chandni Chowk, Delhi

Syed Shoe Factory, Naisarak, Delhi

**INDIAN STATES**

Abdul Salem & Sons, Sayyaji Rao Road, Mysore

Chavda Boot House, Mochi Bazar, Morvi, Kathiawar

Lahore Boot Stores, Johri Bazar, Jaipur City

Md Fazil & Sons, Chikmagalur, Mysore

N Sutor & Co, 51, James Street Secunderabad, Deccan

Complete information on manufacturing all sorts of milk products is contained in "Milk & Milk Products" Re. 1/12. Industry Book Dept., Cal.

Royal Boot Factory, Market,  
Sayyaji Rao Road, Mysore  
Uttam Singh & Sons, Lahori Gate,  
Patiala

Vakil Boot House, Outside Kote  
Gate, Bikaner

Watt Bros & Co, 100, Oxford  
St, Secunderabad, Deccan

#### KARACHI.

Bhag Chand & Co, Bunder Road,  
Karachi

British Boot Market, Elphinstone  
St, Karachi

British Head & Foot Wear Stores,  
Elphinstone St, Karachi

#### LAHORE

Bhalla Shoe Co, Anarkali Street,  
Lahore

#### MADRAS CITY

Alex Hussain & Co, 6, Stringers  
St, G.T, Madras

Babu Jagannath Bros, Perambur  
Barracks, Madras

Kareem Shoe Mait 314, China  
Bazar, Madras

#### MADRAS PRESIDENCY.

Fancy Emporium, Masulipatam

Habibson & Co, Commercial Rd,  
Ootacamund, Nilgiris,

Mera Moideen & Co, Big Bazar  
Rd, Palghat, Malabar

#### N W. F PROVINCE

Gulsham Boot House, Haipur,  
Hazara City

Hussain Bux, Haipur, Hazara,  
ORISSA.

G Nagabhusan, Bata Shoe Store,  
Chaudhury Bazar, Cuttack

Utkal Shoe Factory, Balu Bazar,  
Cuttack

#### PUNJAB.

Akhuon Brothers, Chauha Bazar,  
Ludhiana

Attar Chand Gian Chand, Sargodha

Bharat Boot House, Sheikhpura  
Calcutta Boot House, Gujranwala

Globe Shoe Co, Amritsar

Iqbal Boot House, Sheikhpura

L Foogy & Co, The Mall, Murree

Sawhney Muslim Boot House,  
Main Bazar, Sargodha

Sh Abdul Khahlique, Chauha Bazar,  
Ludhiana

#### UNITED PROVINCES

Aga Bros, Meston Road, Cawnpore

Allen Footwear Co, Sadei Bhatti,  
Agra

Amin Boot House, Shoe Market,  
Agra

Anglo Indian Boots Trading Co,  
Nai Mandi, Agra

Army Boot & Equipment Factory,  
Cawnpore

Baluja Chappal Co, Meston Road,  
Cawnpore

Baluja Footwear Co, Hink ki  
Mandi, Agra

Baileilly Boot House, Shoe Market,  
Agra

Bengal Footwear Co, Sadei  
Bhatti, Agra

Budhoo Salamat Ullah, Maunath  
Bhanjan

Cailton & Company, Huziatgunj,  
Lucknow

Comrade Shoe Co, 55, Shoe Market,  
Agra

Deibal Shoe Mnfng Co, E45, Civil  
Line, Agra

Dickson Footwear Co, Dickson  
Bldg, Near Shoe Market, Agra

Dyal Bagh Footwear, Meston Rd,  
Cawnpore

Emporium Steam Boot & Shoe  
Factory, No 1, Olia Road, Agra

Free-fit Shoe Co, Akbari Road,  
Agra

Himalaya Chappal Co, La Touche  
Road, Cawnpore

**Imperial Boots Works Com-**  
**pany,** Tikunia Bazar, Agra

Kailash Chappal Company,  
Halsey, Cawnpore

Karimullah Habibullah, Bynor

Kishore Boot House, Kanauj

Kohinoor Boot & Shoe Factory,  
Agra

Koh-i-Noor Chappal Co, Meston  
Road, Cawnpore

London Shoe Factory, Mundi  
Saeed Khan, Agra

Matchless Footwear Co, 100  
Shoe Market, Agra

Maulabaksh Qasim Ali, Maunath  
Bhanjan

**Better & Bigger Business through "Mercantile & Mail Order Letters & Methods" from Industry Book Dept, Shambazar, Calcutta.**

Md Kamil Mohammad Yahya, Azamgah	Regular Footwear Co., Punja Madarsa, Agra.
Meerut Shoe Factory, Khan Nagar Gate, Meerut	Rizvi Boot & Shoe Co., Nazirabad, Lucknow
Nagina Boot House, Shoe Market, Agra.	Sd Md Naseeruddin Ahmad, "Sumna" Nihtau, Bijnor.
North West Tannery Co., Civil Lines, Cawnpore	Shahganj Shoe Factory, 400, Raza Manzil, Agra
R M S Footwear Co., Nai Ki Mandi, Agra	Swadeshi Chappal Stores, Moulungunge, Cawnpore
Rahat Boot Co., Nazimabad, Lucknow	Wazir Shoe Factory, Agra
	Zaffarul Haq, Etah

### BOOT POLISH MANUFACTURERS.

Agia Chemical & Pharmaceutical Works, Agra	Chemical Association (Calcutta), Ltd., 55, Canning St., Calcutta.
Alpha Trading & Manufacturing Co., Civil Lines, Cawnpore.	East End Chemical Works, 91, Nabin Chand Goswami Road, Faridabad, Dacca
Arya Chemical Works, Krishnagar, Nadia	Industrial Works, Sikandiabad, U P
Babu's Boot Polish Mfg Co., C/o Jay Bhaiat Shoe Stores, Dhal Bazar, Bhavnagar, Kathiawar	Jallo Subsidiary Industries Co., P O Box No 124, Lahore
Banga Luxmi Chemical Works Ghutia Bazar, Hooghly	Kalianji Bhatia, 29, 31, 33, Bona St., Bombay
Bata Shoe Co., Ltd., Bata Nagar, 24, Paigs	Lion Boot Polish Mfg Co., Jammu (Tawi), Punjab
Bengal Chemical & Pharmaceutical Works, Ltd., 164, Manicktala Main Road, Calcutta	M Hamidullah Khan, Moh Rassitola, Fyzabad.
Bengal Industrial Co., 21, Gopal Ch Bose Lane, Calcutta	Sharika Industrial Works (Regd.), Jammu (Tawi), N W Ry
Bengal Products (1932) Ltd, 27, Narkeldanga Main Rd, Cal	Sheth and Coy, Wadhwan Camp Kathiawar

### BOTTLE MERCHANTS.

(Also Consult Glass Manufacturers & Glass Merchants).

All India Bottle Supplying Co., 153-55, Sheriff Devji Road, Bombay 3	<b>Burma Glass Works, 9, Ezia St., Calcutta. Factory.—10-A, Canal Circular Rd., Daspara, Calcutta (All kinds of Glass bottles, Tumblers, Chimneys, etc., etc.)</b>
Ashini Kumari Dass & Co., 180, Lower Chitpur Rd, Calcutta	<b>C. G. Depot, 194-12, Old China Bazar Street, Calcutta</b>
Behal Glass Works Ltd, Darulganj, Arrah, E I Ry	<b>C K Das &amp; Sons, 17, College Street, Calcutta</b>
Bharat Business Co., Nagina, Bijnor	<b>Calcutta Bottle Stores, 180, Lower Chitpur Road, Cal Br - 67, Ezra St., Calcutta</b>
<b>Bimal Bottle Stores, 50-A, Suni Lane, Calcutta (Importers &amp; dealers in all kinds of Bottles, Phials and Corks)</b>	<b>Continental Bottle Co., 24, Ezia St., Calcutta</b>
Bombay Bottle Stores, 127, Chakla St., Bombay	<b>Eastern Bottle Stores, 21-8, Ram-mohon Shaha Lane, Calcutta</b>
Bonfield Bottle Stores, 14-4A, Bonfield Lane, Calcutta	<b>H D Dutt &amp; Co, 18, Radha Bazar Lane, Calcutta (Direct Importers of Corks of all sizes)</b>

**WHAT? BOTTLES, PHIALS, HOSPITAL REQUISITES**  
Write to **C. G. DEPOT, 194/1A, Old China Bazar St., Cal.**

Hazel & Cedar, 4, Kaloo Ghosh Lane, Calcutta  
 Kantilal K Shah, 129-131, Chakia St., Bombay.  
 Lakshmi Bottle Stores, 14, Ezra Street, Calcutta  
 Nath & Bros, 67, Ezra St, Cal  
**Oriental Import & Export Agency**, 52, Shrikrishna Nivas, New Silk Bazar, Kalbadevi Rd., Bombay (Emptv Glass Bottles)  
 P S Dutt & Bros, 8, Ezra St., Calcutta  
 R Avasthi & Co., Noughaia, Cawnpore

Radha Bazar Bottle Stores, 15. Radha Bazar Lane, Calcutta (Importers & dealers in all grades of Bottles. Phials and Cork Products)

S M. Yasin & Sons, Makhanta Bazar, Cawnpore (Also coils)  
 S P Singha & Co., 4, Ezra St Calcutta

Satya Charan Paul, 194. Old China Bazar St., Calcutta

T L Pathy & Co., 1-2 & 67. Malaiperumal St, George Town, Madras

Upper India Bottle Supplying Co., Mani Ram Bazar, Cawnpore

## **BOXES & CANS MANUFACTURERS & DEALERS.**

(Also Consult Cardboard Box & Tin Box Manufacturers).

### **BENGAL.**

Venesta Ltd, Kamarhati, Bengal

### **BOMBAY.**

A S Yoosuf Dhoirajwala, Corner of Tarwadi, Mazagaon Road, Bombay (Empty drum, etc)  
 Abbasbhoy Gulamhusein & Co., Playhouse, Old Iron Bazar Bombay

Abdul Satar Noormahomed Dabawala, Damar Guly, Dondat St., Bombay (Empty box dealers)

Central Paper Box Factory, Patel Building, 250, Nagdevi St., Bombay

Fazalbhoy Mathoo, Sharaff Wadi, Mazagaon, Bombay (Drum)

Hasambhoy Jetha Opp Byculla Goods Depot, Parel Rd., Bombay (Barrels and Drums)

Kadari Paper Box Factory Noor Manzil, Mahomedali Road, Bombay

Paper Tuhing Works Nene Bldg., Chaini Rd., Bombay 4

Tricumdass & Co, 29-31, Bohra Bazar St, Fort, Bombay (Alarm Cash Box)

### **BOMBAY PRESIDENCY**

Dadabhai N Bhojiram, Bazar, Bilimora, Surat (Wooden Cask Mnfrs)

Jamshedji Purojshaw Wadia, Bilimora, Surat (Wooden Barrels)

### **CALCUTTA**

Ganga Box Manufacturing Co., 1A Hiramda Das Lane, Cal  
 Standard Box Co., 6 Ananda Banerjee Lane, Calcutta

### **KARACHI**

Haideri Tin Factory, Fiere Rd., Karachi

### **MADRAS PRESIDENCY.**

K C Cherian & Sons, P B No 59, Cochin (Packing cases)

### **UNITED PROVINCES**

Abdul Haq Abdul Bashir, Bazar Jhumma, Farrukhabad.

Agarwal Bros., & Co., 21, Sheocharanlal Road, Allahabad

## **BRASS & COPPER SHEET DEALERS.**

### **BENGAL**

Ravendra Kumar Kunwaru Jain, 18, Grand Trunk Rd., Howrah

### **BOMBAY**

Chandulal Narandas, 96, Kika Street Bombay No 4

Chunilal Chenmalu & Co., 87-89 Gulalwadi, Bombay

Devidayal & Sons, 38, 2nd Bhaiwada, Bombay

Mulchand Soochand, Tamba Kanta Pvdhoni Bombay

Sarauddin Tayabali, Kolasa Mohalla, Bombay

**WHAT? BOTTLES PHIALS HOSPITAL REQUISITES**  
 Write to C G DEPOT, 194/1A, Old China Bazar St., Cal.

**CALCUTTA**

Nandon & Co, 43, Clive St, Cal  
P C Coomar & Son, 64 and 65,  
Clive St, Calcutta  
P V Dass & Co, 78, Clive St.  
Calcutta  
Standard Metal Co, 77-1, Clive  
Street, Calcutta

**INDIAN STATES.**

R Ramaswamy Naidu, Pambanar  
Bazar, Peermade, Travancore

**UNITED PROVINCES.**

Jagabandhoo Chatterji & Sons,  
Agast Kunda, Bishwanath  
Lane, Benares

**BRASS FITTINGS DEALERS.**

Annapurna Metal Works, 3, Ashu  
Biswas Road, Calcutta Fac-  
tory —Bondel Road Rly Cross-  
ing, Calcutta  
Bombay Brassware Co, Devka-  
ran Mansion, 5, Mangaldas Rd  
Bombay  
Lookmanjee Moosaji Lohari  
Chawl, Bombay 2

Metal Manufacturing Co Ltd, 14,  
Stark Rd, Lillooah, E I R.

S Mitra & Co, 30, Bentinck St.  
Calcutta

United Engineers Ltd, Chandausi,  
(U P), (Manufacturers of  
Brass Water Fittings)

**BRASS FOUNDERS.**

Annapurna Metal Works, 3, Ashu  
Biswas Rd, Calcutta Factory  
—Bondel Road Rly Crossing,  
Calcutta

Ardeshir Iron & Brass Works,  
Opp Chota Kabrastan, 3rd  
Kharwa Lane, Bombay

Arjun Balaji Brass Works, 23,  
2nd Carpenter St Bombay

Babubhai Narotamdas & Co, Na-  
rotam Nivas Nana Chowk, Tai-  
deo Road, Bombay

Bombay Brass & Metal Works  
2nd Panjrapole Lane, C P  
Tank Rd Bombay

Bombay Brass Works Co, Jullun-  
dur City.

Eastern Metal Works, 53-1-1A,  
Raja Dinendra St, Calcutta.

Electric Brass Works Factory,  
7th Khetwadi Lane, Sandhurst  
Road, Bombay

Empress Iron & Brass Works.  
Connaught Road Parel, Bom-  
bay

Joshi & Co, 207, Kumbharwada  
6th Lane, Golmtha Bombay

Kalvan Dass Prem Singh, Belan-  
gani Agra

S Thandavan Chettiar Son,  
South Chitra St Srirangam,  
(S I Ry) Via—Trichinopoly

Sun-Shine Metal Works, Delhi.  
(Brass & Iron Casting)

**BRASS ROD & STRAP MANUFACTURERS.**

Amritlal Hernandas & Co, Old  
Anjurwadi Mount Rd, Mazaga-  
on, Bombay, (Brass)

India Rolling Mills Ltd, 67-74,  
Stephen House Dalhousie Sq.  
Calcutta.

**BRASSWARE DEALERS & MANUFACTURERS.****BENGAL**

Kristo Lall Dass and Satya Kin-  
kar Dass, Bankura  
R Kerr, Bankura (Also Bell-  
metal)

**BIHAR.**

Jain Metal Works, Arrah, Shaha-  
bad  
Katrass Engineering Works, Kat-  
rassgarh Manbhum

**BOMBAY CITY.**

Abbasbhoy Akbarally & Co, 85,  
Gulabwadi Kika St, Bombay

Acme Manufacturing Co Ltd, 9,  
Wallace Street Fort, Bombay.

Br —30 Bentinck St, Calcutta.

Amritlal & Co, 233, Nagdevi St  
Bombay

Davulal Manekial & Co, Rhanali  
Bhuwan Null Bazar, C P Tank  
Road Bombay

Better & Bigger Business through "Mercantile & Mail Order Letters &  
Methods" from Industry Book Dept, Shambazar, Calcutta.



Empress Iron & Brass Works,  
Connaught Road, Parel, Bom-  
bay.

K S Ahmedally & Bros, Arab  
Building, 93, Lohar Chawl,  
Bombay.

Punjab Metal Works, 359, Kalba-  
devi Rd, Bombay

#### BOMBAY PRESIDENCY

Pragn Nani Dosa, Near Moti  
Hamam, Ahmedabad (Cuc-  
bles Manufacturers)

#### CALCUTTA.

B C Chatterjee & Co, 10, Hari-  
pal Lane, Calcutta

Bengal Metal Works Ltd, 117B,  
Chittaranjan Avenue, Calcutta  
Factory 182, Naskarpara Rd,  
Ghusury, Howrah

East Bengal Engineering Works,  
2, Rustonjee Parsee Rd, Cal

S. A Hakim Fakuruddin, 70,  
Lower Chitpur Rd, Calcutta

S C Kundu & Sons, 50, Clive  
St, Calcutta

S Mitra & Co, 30, Bentinck St,  
Calcutta

Sashi Bhushan Provopada De, 5,  
6, Tower Block, College Street  
Market, Calcutta

#### DELHI.

Bhagwan Dass, Jagan Nath,  
Chandni Chowk, Delhi

G C Sygil & Co, Chandni  
Chowk, Delhi

Sri Ram & Sons, Chandni Chowk,  
Delhi

#### INDIAN STATES

Barmamma, Chikmagalur, Mys-  
sore

Chauthmal Kajumal, Tripolia  
Bazar, Jaipur City

Chhagan Madhavji, Panchbatdi,  
Junagad, Kathiawar

Dhiraj Metal Works, Rajkot, Ka-  
thiawar

Gordhandas Radhakrishnan, Sarafa  
Bazar, Lashkar, Gwalior

P M Allabux & Co, Ajmer Rd,  
Jaipur City

Sheojitram Ramkunwar, Tripolia  
Bazar, Jaipur City

#### KARACHI.

Bombay Brass Factory, Bunder  
Rd, Karachi

#### MADRAS.

Richardson & Cruddas, 1st Line  
Beach, Madras

#### MADRAS PRESIDENCY

K Balaguruva Chettiar Son,  
Erode.

N. S Subbarama Iyer, Big Bazar,  
Palghat

P. S Chidambara Nadai, 28, Ven-  
kalakadai St, Madurai, H O. Vi-  
rudhunagar.

#### ORISSA.

Bhupatram Mahabir Prasad, Mar-  
wari Para, Sambalpur

Jainaram Tilak Chand, Marwari  
Para, Sambalpur

#### PUNJAB.

Amin Chand Bhola Nath, Tanda  
Rd, Jullundur

Balli Singh Bhagwan Singh, Ba-  
zar Kaseera, Amritsar. (Brass  
Wares & Other Hollow Wares,  
Water Containers etc. etc)

Banarsi Shah Chaijan Singh, Guj-  
ranwala (Cocks & Strainers)

Himat Singh Jagan Nath, Pani-  
pat

Kharan Ram Ramsaran Das,  
P O, Nurpur, Kangra

Mohan Singh Dari Mall, Panipat

Popular Aluminium Factory, Guj-  
ranwala, Pb (Also Copper and  
Aluminium Wares)

Ram Singh Gian Singh, Gujran-  
wala.

#### UNITED PROVINCES.

Aligarh Metal Industries, Manak  
Chowk, Aligarh

All-India National Stores, Post  
Box No 9, Moradabad, U P

Baburam Narain Das, Tripolia  
Chawk, Farrukhabad

Bahadur Metal Foundry, Aligarh  
(Brass Buckles, Badges, But-  
tons, Building Fittings, etc)

Baldeo Prasad Mannalall, Hatia  
Bazar, Cawnpore

Bandhu Ram Radha Krishna,  
Deoria, Gorakhpur

**COMMON FAULTS & ERRORS:** A guide to writers and speakers in  
English As 5. Industry Book Dept., Shambazar, Calcutta.

Dalehand Harnarain, Meston Road, Cawnpore  
 Dhani Ram Manna Lal, Hatia Bazar, Cawnpore  
 G Karan Jee & Sons, P O Box 13, Aligarh  
 Ganga Ram Sheo Dayal, Farrukhabad,  
 Gupta Brothers, Dindaipurah St., Moradabad.  
 H M Ebrahim Ali Mohammad, Hadi Shidi Sarai, Moradabad  
 Haji Noor Elahi Mehai Elahi, Bazar Chawk, Moradabad  
 Jafar Ali, Mohalla Nababpur, Moradabad  
 K S Jowhai & Sons, Shidi Sarai Street, Moradabad  
 Karar Husain Sadiq Hussain, Moradabad (Enamelled)  
 Kunj Behari Hanuman Prasad, Rani Bazar, Ajodhya  
 Lal Behari Ram Sarup, Ismailganj, Farrukhabad  
 M A Jabbar & Sons, Shidi Sarai, Moradabad  
 Mani Lal Radha Kishen, Chouk, Cawnpore

Mathura Pd Peary Lal, Bhikampur, Farrukhabad  
 Mishri Lal Gridhari Lal, Bazar Mandi Chowk, Moradabad  
 Mukandi Lal Harbanslal, Najibabad.  
 N. K Porov's Fine Brass Works, Jageshwar Buildings, Garikhana, Moradabad  
 Oriental Art Emporium, Moradabad  
 Oriental Trading Co., Nagina, Bijnor  
 Puttu Lal Chheda Lal, Talariya Fazal Imam Farrukhabad  
 Ram Narain Shamnarain, Ry. Station Road, Moradabad  
 Ram Sarup Mahir Chand, Dhampur (Utensil)  
 Roop Chand Benarsi Lal, Najibabad,  
 Sheo Narain Gobind Prasad, Hatia Bazar, Cawnpore  
 Shyam Sunder Chagganlall, Hatia Bazar, Cawnpore  
 Shiv Saran Das Babooram, Najibabad  
 Sitaram Ganga Pershad, Sati Chowtia, Benares

### BRICK MANUFACTURERS.

(Also see under Tiles Manufacturers)

#### BENGAL.

Haridas Biswas, Dhirendranath Biswas, Balubari, Dinajpur  
 K. Chowdhury & Sons, Majampur, P. O Kushtia, Nadia  
 N N C Brickfield, Nogendra Nath Chatterjee, Manirampore, 24-Pargas  
 S C Mukherjee, Manirampore, 24-Pargas  
 S C Mukherjee & Sons, 185, Shibpore Road, Howrah  
 U N Paul & Sons, Chitragunge Brick Fields. Budge Budge, 24-Pargas

#### BIHAR.

Mohun & Co. Harisava Rd, Muzaffarpur  
 Patna Brick Mfg Works Ltd, Babugunj Ghat, Patna

#### BOMBAY CITY.

C Tribhovandas & Co, 11, Bank St, Fort, Bombay.  
 D Raghunathji Desai & Co, Opp Police Chowkie, Ghodbunder Road, Khar, Bombay  
 K Giggabhai & Sons, 8-10, Green St, Fort, Bombay  
 Kerson Ramji Kalyanwala, 17, Ravelin St, Bombay  
 Mistry Kamaruddin Badroodin Duncan Road, Post No 4 Bombay  
 Raghunathji Desai & Co, Opp. Police Chowkie, Ghodbunder Road, Khar, Bombay

#### BOMBAY PRESIDENCY

J H Madan's Factory, Dhastipura, Surat  
 N C Palia's Factory, Dhastipura, Surat.

**COMMON FAULTS & ERRORS:** A guide to writers and speakers in English. As. 5. Industry Book Dept., Shambazar, Calcutta.

Oghala Lalloobhai & Co, Reid Road, Ahmedabad.

Pioneer Clay and Industrial Works, Khanapur, Belgaum

Soma Naisai, Bangia Falia, Bilimora, Surat

#### CALCUTTA.

Burn & Co, 12, Mission Row, Calcutta

Chandi Charan Nayak, 124-1, Bow Bazar Street, Calcutta

Dutt & Co, 76-1, Cornwallis St, Calcutta

N. C Paul & Co, 30, Hanish Chatterjee Street, Calcutta

P. N Mitter & Co, P O Tollygunge, Calcutta

#### CENTRAL PROVINCES

Jagmohan Singh & Bros, Andherdeo, Jubbulpore

#### DELHI.

Baldeo Singh & Sons, Kucha Tara Chand, Darya Ganj, Delhi

Duli Chand, Sadar Bazar, Delhi

Ford and Macdonald Ltd, Sadar Bazar, Delhi, Civil-Lines, Cawnpore

Kundan Lal Shungloo, Sadar Bazar, Delhi

#### INDIAN STATES.

Bangalore Fine Brick & Tile Works, Magadi Road, Bangalore City

Kolar Brick Making Co, Ltd, Marikuppam, Kolar

#### LAHORE.

Behari Lal Janam Das, Brandreth Road, Lahore

#### MADRAS CITY.

C Doraiswamy Naidu, 14-5, Wall Tax Rd, Nekkundram, Madras

Kasi Brick Works, Koyambedu, Poonamallee High Rd, Madras

L K Ayyavoo Naidu, 10, Toll Gate, Aminjikarai, Madras

Sri Krishna Brick Tile Works, Thirumangalam, (Near Aminjikarai), Madras

Sri Lakshmi Brick Kiln, New Building, Dr. Muniappa Road, Kilpauk, Madras

Usmania Brick Works, 534, Poonamallee High Road, Aminjikarai, Madras

#### MADRAS PRESIDENCY.

Bellary Brick and Tile Works, Bellary

G. L Narayana Setty & Sons, Adoni, Bellary Dt

#### PUNJAB.

Bakht Ali Brothers, Fort, Panipat (Cement, Bricks, etc).

#### UNITED PROVINCES.

Badi Nath Seth & Sons, Goughat, Mirzapur.

Bengal Stone & Co, Near Rly Stn., Mirzapur.

J Frizzoni & Co, Grand Trunk Road, Cawnpore

Mohd Buz, Benajhalur, Cawnpore

N M Verma & Sons, Old Police Station, Shahganj, Agra

### BRISTLES MERCHANTS.

#### CALCUTTA.

Chakraverty Ghose & Co. 15, Clive St, Calcutta

Indian Bristles & Laid Supply Co, 31-1, Tangra Rd, Calcutta.

Khaitan Sons & Co, 1, Commercial Buildings, Clive Street, Calcutta.

#### MADRAS CITY.

Volkart Bros, Armenian Street, Madras.

#### MADRAS PRESIDENCY.

East India Exporting Co, Paulson Road, Rajahmundry

#### UNITED PROVINCES

Allan M Sadri & Sons, The Mall, Cawnpore

Cowasjee & Sons, Opp Anwar ganj P O, Cawnpore

D. B. Mehta & Sons, Beharilal Estate, The Mall, Cawnpore

F J Kotwal & Sons, 11-176, Southergunj, Cawnpore.

Ghurey Lal & Sons, Khatkana, La-Touche Road, Cawnpore.

U P

H & S Bros, 105, Kalpi Road, Cawnpore

For constructional details of Radio Sets and reception read "Radio Reception in Theory & Practice." Rs. 2/8. Industry Book Dept, Cal.

Harbilas Rai & Co. La-Touche  
Road, Cawnpore

K L Mehta & Co, Cawnpore

Makuno Lal Dori Lal, La Touche  
Road, Cawnpore

Manick Shaw Sadri & Co. The  
Mall, Cawnpore

Narayan & Sons, Patkapur,  
Cawnpore

Rajeshwar Prasad Karanwale,  
Kasganj, (U P)

### BRONZE POWDER DEALERS.

Abdulally Sulemanji Rangwala,  
26, Sutar Chawl, Bombay

B S Dutt & Co, 16, Bonfields  
Lane, Calcutta

Chandi Charan Nayak, 124-1, Bow-  
bazar St., Calcutta

Hiptoola & Co, Khokha Bazar,  
Bombay 3

Koylash Chunder Dutt & Sons, 20,  
Bonfield Lane, Calcutta.

S N. Dey, 9, Bonfield Lane, Cal

### BRUSH MANUFACTURERS.

#### BENGAL.

Bharat Industries Corpora-  
tion Ltd., 88, Sambhu Halder  
Lane, Salkia, Howrah (Shaving  
Brush)

Jessore Comb Industry Co, Jes-  
sore (Toothbrush)

Standard Brush & Bellows Works,  
11, Doyal Banerjee Road, P O  
Sibpur (Howrah)

Zenth Rub-Set Products, P O  
Gharialdanga, Rangpur

#### BOMBAY CITY.

Aryan Brush Co, Naigaum Cross  
Road, Dadai, Bombay

Jai Bharat Brush Co, 280-A So-  
pari Bang Road, Parel, Bombay

#### CALCUTTA.

Amherst Brush Factory,  
12-B, Amherst St., Calcutta

B Dutt Bros, 62, Manicktola St.,  
Calcutta

Bengal Brush Factory, 1, Nobin  
Ghosal Rd, Ballygunj, Cal  
Bonner & Co, 7A, Sukeas St.,  
Calcutta.

Britannia Brush Works, Room 19,  
43, Clive St, Calcutta

Caledonia Brush Works, 20-1,  
Manik Bose Ghat St., Cal

Champatola Brush Factory, 18,  
Amherst, St, Calcutta

Climax Brush Works, 64A, Muza-  
pur, St, Calcutta

Manick Lal Pal & Co, 173-1,  
Dharamtala St, Calcutta

Pioneer Brush Factory, 11, Am-  
herst St, Calcutta

Vulcan Brush Works, 3B, Nabo  
Kumar Raha Lane, P O, Sham-  
bazar, Calcutta

#### DELHI.

Army Brush Factory, Sadar  
Bazar, Delhi

Hafiz Abdul Salam & Sons, Sa-  
dar Bazar, Delhi

Islamia Brush Factory, Sadar  
Bazar, Delhi

Mohd Ishaq Allawala, 150, Sad-  
ar Bazar, Delhi

Star Brush Works, Saddar Bazar,  
Delhi

#### INDIAN STATES

Baroda Brush Factory, Baroda

J R & Sons Brush Works, Alir  
Prince Yeshwantrao Brush &  
General Mnfg Co Ltd, Sarafa  
Indore

#### LAHORE.

Kailash Brush Factory, Wachho  
wali, Lal Thara, Lahore

#### MADRAS CITY

Royal Brush Works, 33, Wall Tax  
Road, P T, Madras

#### MADRAS PRESIDENCY

Neveiseptic Tooth Brush Industry,  
Karananathapuram, Tanjore

#### PUNJAB.

Badhan Trading Co, 13, Wakefield  
Ganj Street, Ludhiana

Tackey Bros 715, Mianapura  
St, Sialkot City

#### UNITED PROVINCES

A. A M Hasan & Co, Dhampur,  
Bijnor

For constructional details of Radio Sets and reception read "Radio  
Reception in Theory & Practice." Rs. 2/8. Industry Book Dept, Cal.

Agra Brush Factory, Jeoni Mandi,  
Bailanganj, Agra  
Brushwares Ltd, 123-1, Halsey  
Road, Cawnpore  
Crown Brush Factory, Bagh Mu-  
zaffarkhan, Agra  
Ganga & Co, Valley Bazar,  
Meerut City  
H Bevis & Co, Bansmandi,  
Cawnpore

Indian Brush Factory, Bansman-  
di, Cawnpore  
Mungh Prashad & Co, Mall Rd,  
Cawnpore.  
Shaw & Coy, Khan-nagar, Meerut  
City Factory Kotla St, Meerut  
City  
Siddiqui Brush Factory, Sherkot,  
Bijnor.

### BRUSH MATERIALS DEALERS.

Indian Bristles & Lard Supply  
Co, 31-1, Tangia Rd, Calcutta  
Narayan & Sons, Patkapur,  
Cawnpore

Sudhindra Kumar Ghose, Ghose-  
House, 18, Noormahamed Lane,  
Calcutta

### BUCKET MANUFACTURERS.

Bengal Light Casting Co, 21, Ma-  
harshi Debendra Road, Calcutta  
Phone 238, Barabazar, Tele —  
Dhalaikaia, Calcutta Works  
18, Chatterjee Para Lane, North  
Bantra, Howrah, Branches —  
279, Rasappa Chetty St, Mad-  
ras Works —19, Waltax Rd,  
Madras

Binapani Galvanising Works,  
137-1-2, Ultadanga Main Road,  
Calcutta

Calcutta Galvanizing Works,  
Bhagalpur City

Crown Bucket Factory, 222, Nag-  
devi St, Bombay

Ganges Galvanizing Works,  
Benares Road, Salkna, Howrah  
Proprietors —South India Cor-  
poration (Madras) Ltd, 34, Ezra  
St, Calcutta Phone Cal 1945

Jogendra Nath Chatterjee & Sons,  
21, Maharshi Debendra Road,  
Calcutta Phone 238, Barabazar,  
Tele —Dhalaikaia, Calcutta  
Works —18, Chatterjee Para

Lane, North Bantia, Howrah  
(Estd 1873)

M G Rangia Bucket Works,  
Chakradharpur

Marwai Galvanising Works, 161-1,  
Harrison Road, Calcutta

Moosaji Valibhai Baldiwala, 156,  
Nagdevi St, Bombay

Nanalal Ambala & Co, 69, Nag-  
devi St, Bombay.

Punjabi Bucket Co, Ilyas Rd,  
Bagh, Delhi

Ramjiban Chandra Rajkumar  
Chandia, 58, Chive Street, Cal

S Serajuddin & Sons, 66-1, Hal-  
sey Rd, Cawnpore, U P H O  
Calcutta Br —Delhi, Amrit-  
sar & Lahore

Saifee Bucket Factory, Sankh  
St, Byculla, Bombay

Shyam Sunder Galvanising  
Works, 150, Ultadanga Main  
Road Calcutta

Wooma Charan Dey 180-181, Old  
China Bazar St, Calcutta

### BUCKLES & EYELETS DEALERS.

Lambs Import Agency, Deputy-  
ganj, Delhi

Oza & Co, Hyderabad, Deccan

### BUILDING MATERIALS DEALERS.

#### BENGAL

Bibhuti Bhushan Biswas, Maldaha-  
pati, Dinajpur

Burk & Co, English Bazar, Mal-  
da (Cement Roofing Tiles)

Calcutta Builders' Stores Ltd, 20,  
Shalimar Rd Howrah

Haridas Biswas Dhuendianath  
Biswas, Balubari, Dinajpur

S N Dhawa & Sons, Vill Sub-  
baranaha, P O Jugeisa, How-  
rah

Drink & Sell Syrup. MANUFACTURE OF SYRUP Explains the  
process INDUSTRY BOOK DEPT., Shambazar, Calcutta

**BIHAR.**

Rangulam Sah Naubat Ram,  
Maharajganj, Saran Dt  
Sitaramsah Mathura Prasad Ma-  
harajganj, Saran

**BOMBAY CITY.**

Bharat Hardware Stores, Vithal-  
das Pranjivandas Chawl, Dr  
D'silva Road, Dadar, B B &  
C I Ry, Bombay.  
Bombay Building Materials  
Trading Co, 73, Meadows St,  
Fort, Bombay.  
Bombay Supply Company, 92,  
C P Tank Road, Bombay 4  
Branch—Karachi  
Building Material Supply Co,  
Sand Bunder, 23, Dairukhana,  
Bombay  
Central Agency, Pinto Building,  
Hill Road, Bandra, Bombay  
Dosanjhi Sharifali, Near Chunam  
Bhatni, B G Road Santa Cruz,  
Bombay.  
Eastern Agency, Next to Bombay  
Garage, Ghodbunder Road,  
Santa Cruz, Bombay  
Emalux (India) Ltd, Prospect  
Chamber Annexe, Hornby Road,  
Bombay (Gripkri & Emaile-  
De-Luxe Cement)  
Esmail Alimohamed Chunawalla  
& Co 180-182, Bapu Khote  
Street Jambli Moholla, Bombay  
Esmail Haji Mohmed Patel, 2nd  
Khetwadi Lane, Golpitha, Back  
Road, Bombay  
Esmail Noormahomed & Co, Opp  
Market, Andheri, Bombay  
Feathercrete Patents Co, Lorn  
Castle, Government Gate Rd,  
Parel, Bombay  
Haji Umer Haji Musa, near  
Police Station Pydhownie,  
Bombay  
Hasanali Keshavn & Co, Belgia-  
mis Bungalow, New Agia Road,  
Kurla, Bombay  
Lawn Nann, Jackeria Chawl,  
Ghodbunder Rd, Malad, Bom-  
bay  
M Rohimulla & Co 38, Narayan  
Dhurn St, Bombay  
Tandur & Shahabud Stone Co  
Sandhurst Road, near Round  
Temple, Bombay 4

**CALCUTTA.**

Ananda Soorkey Mill, 14-3, Galiff  
Street, Calcutta  
Asbestos Cement Ltd, P O Box  
374, Calcutta, P O Box 773,  
Bombay, P O Box 87, Madras  
(Roofing material)  
Associated Sand Traders, 26-2B,  
Moyepore Rd, Chetla, Calcutta  
B Sinha & Co, Office and Show  
Room—38, Chandney Chowk  
St, Calcutta Sale-room—192  
& 193, Chandney Chowk, Cal.  
(Manufacturer of "Simco"  
Brand Door & Sanitary Fitti-  
ings)  
B P Sanyal & Co, 29, Strand  
Road, Calcutta  
Behar Surkey Mill, 2, Lime St.  
Calcutta  
Bhattacharyya & Co, 29, Strand  
Road, Calcutta (Stone)  
Builders' Stores, 18-11-16, Canal  
West Rd, Garpa, Calcutta  
Builders Supply Corporation, 5/3,  
Shyam Bose Rd, Calcutta  
Calcutta Builders' Agency, 23,  
Orphangunge Rd, Calcutta  
Calcutta Builders' Stores Ltd.  
Trust House, 32 Chittaranjan  
Avenue, Calcutta Br—187,  
Darmahatta St, Nimtollah  
Strand Rd, Chittagong  
Calcutta Sorkey Mill, 22A, Canal  
West Rd, Manicktolla, Calcutta.  
Chandi Charan Navak, 124-1,  
Bowbazar Street, Calcutta  
Chatterjee & Co (Surki Mill)  
199/6, Upper Chitpui Rd, Cal-  
cutta  
Dum Dum Mechanical Wood  
Works 15, Dum Dum Rd,  
Calcutta  
Durgapore Surkey Mill, 7B,  
Mohesh Dutt Lane, Chetla,  
Calcutta  
Dutta Bros (Soorkey Mill) 297/1,  
Upper Circular Rd, Calcutta.  
East India Soorkey Mill 7,  
Bridge Rd Chetla, Calcutta  
H D Paul & Sons, 32-2B Wel-  
lington St, Bowbazar Cal  
Haridhan Datta & Sons, 92  
Harrison Road Calcutta  
Indian Patent Stone Co Ltd  
Chartered Bank Bldg Cal

Drink & Sell Soda. MANUFACTURE OF SYRUP F&S claims the  
process INDUSTRY BOOK DEPT., Shambazar, Calcutta

Indian Tube Co, Ltd. Victoria House, Calcutta.  
 International Trading Co, 13, Clive St, Calcutta  
 Jogendra Nath Chatterjee & Sons, 21, Maharshi Debendra Road, Calcutta  
 Kalghat Soorky Mill Co, 144, Kalghat Road, Calcutta  
 Kamala Soorky Mill, 15-3, Galiff St, Calcutta  
 Kutra Stone and Lime Works, 5, Kutra Road, Kidderpore, Cal  
 Macfarlane & Co, Ltd, 18, Tangra Rd, Entally, Calcutta (Roof Cement)  
 P B Shah & Co, 26, Clive St, Calcutta  
 S P De & Sons, 84A, Clive St, Calcutta.  
 Simplex Concrete Pipes Ltd, 26, & 27, Ekbalpore Lane, Cal  
 Sree Gopal Mechanical Works, 67, Victoria Rd, Baranagore, Calcutta  
 Structural Water Proofing Co, 21-1, Dover Road, Ballygunge, Calcutta (Cement Waterproof)  
 Surendra Nath Ghose & Co, D/12, Juggernath Ghat, Lohaputty, Barabazar, Calcutta  
 Taraknath Nandi 17/1A, Galiff St, Calcutta.  
 Victoria Soorky Mill, 76-1 Cornwallis St Calcutta

**CENTRAL INDIA**

Imperial Stone Lime Mfg Co. Imaha, Maihar, C I

**CENTRAL PROVINCES.**

Duryodhan Sao Bhano Pd Sao Agarwala, Godihari, Raipur (Black flooring marble stones)  
 Moharsingh Bholanath Katni

**DELHI.**

Oriental Mfg Co, 1824, Chawil Bazai, Delhi (Fittings).

**INDIAN STATES.**

Alibhai Mulla Rehmanji, Porbandar.  
 Campbell & Sons, 113C Brigade Rd, Bangalore  
 Govind Nanji Patel, Dera Sheri, Gondal, Kathiawar

Marble Quarries, Makkiana, Marwar  
 Misra Lime Works, Sutna, Rewa.  
 Nanji Virji, Porbandar (Stone)  
 Sandstone Quarries and Lime Stone Kilns, Jodhpur, Sojat, Khatu, Marwar.  
 Sutna Stone & Lime Co, Ltd, Sutna, Rewa

**KARACHI.**

B. S Jagatsingh & Co, Bunder Rd, Karachi  
 Dewanchand Nikkamall, Mariot Rd, Karachi B1 —(1) 86, Bhajpala Lane, Bombay 3 (2) 84-A, Clive St, Calcutta. (3) Loha Mandi, Amritsar

**LAHORE.**

B Sen & Co, Hotu Singh Road, Lahore  
 Dhyani Singh & Sons, Mela Ram Road, Lahore Br —Simla

**MADRAS CITY**

Calcutta Light Casting Supply Co, 19, Errabalu Chetty St, Madras  
 P. V Rathakrishna Chetty & Bros, 45, Venkatachella Mudaly Street, Park Town, Madras  
 Factory —Kalmadapam Road, Royapuram, Madras B1 —8-11 & 21-22, Rasappa Chetty Street, Park Town, Madras

**MADRAS PRESIDENCY.**

A G Gopalakrishnan & Co, W Boulevard Road, Trichinopoly  
 M Rebello & Sons, Mangalore

**PUNJAB.**

Kalseys Singh Company, 1, Kalsey Buildings, Amritsar

**RAJPUTANA**

Hinalal Hemraj & Sons, Nasirabad, Rajputana

**UNITED PROVINCES**

Badi Nath Seth & Sons, Gaughat, Mirzapur (Stone)  
 Bharat Stone Works, Sonkaigarh, Allahabad  
 Bishumber Nath Tandon, L Touche Road, Cawnpore.  
 Cawnpore Lime & Surkhi Mills, Chingighur, Cawnpore  
 Ghotak & Co, Sonapur, New Road, Benares City

**Manufacture of Tobacco, Snuff, Zarda, etc., Read, INDIAN TOBACCO & ITS PREPARATIONS. Rs. 2/8. Industry Book Dept, Calcutta.**

Har Narain & Sons, Hatia, Cawnpore  
 Hulas Rai Jamna Das, Bulandshahr  
 Locks Foundry, Baniapara, Aligarh  
 M Nigam & Co, Coohe Bazar, Cawnpore.

Mirzapur Stone & Trading Co, Mirzapur City  
 Prabhakar Metal Works, Jaiganj Aligarh (Brass Materials)  
 R N Sanyal, 8, Hewett Road, Lucknow.  
 Rama & Co, Moulgunge, Cawnpore

### BULLION DEALERS.

Akhoy Kumar Dey & Co, 54, Manohar Dass St. Calcutta Phone B B 258  
 Ambalal Amichand Choksi & Co, 101, Shaik Memon St., Zaveri Bazar, Bombay  
 Amiji Hasanali Soni, Sem Bazar, Jamnagar, Kathiawar  
 Bhagwan Prashad Moti Chand, Deoria, Gorakhpur  
 Bhagwanji Monji Parekh, Gaudmukh Bhuvan, Masjid Bunder Rd, Mandvi, Bombay  
 Bharti Bros, 108-116, Vithalwadi, Kalbadevi Road, Bombay.  
 Bhikhamchand Balkishendas, 24, Bullion Exchange Hall, Shaik Memon St., Bombay  
 Bhagilal Chhotalal Chokshi, Opp Khara Kuva, Shroff Bazar, Bombay.  
 Bhogilal Chimanlal Sonawalla, Opp Khara Kuva, Bombay  
 Bijnath Saraf, Kinari Bazar, Agra  
 Bilas Rai Haridut Rai, Nayagunge, Cawnpore  
 Binraj Zorawaimull Batia, 7, Canning St, Calcutta  
 Chetandas Banechand, 25, Bullion Exchange Hall, Shaik Memon St., Bombay  
 Chunilal Mehta & Co, Ltd, 51, Marwari Bazar, Bombay, 2  
 Dhunji Gafal, Bazar, Wadhwan Camp, Kathiawar  
 Dutt & Co, 16, Nalini Sett Rd, Calcutta  
 Ghasi Ram Maniklal, Chowk, Satna, Rewa State  
 Hajarimul Hukumchand, Sarafa Bazar, Lashkar, Gwalior  
 Hamirram Sukhlal, Mewari Bazar, Beawar, Merwara Dt  
 Hari Chand Gulab Chand, Azamgarh, U P

Jan Mohomad Noor Mohd, Chandni Chowk, Opp Moti Bazar, Delhi  
 Janki Saran Lakshman Saran Gupta, Chowk Bazar, Bahraich.  
 Jayantilal Tarachand Parekh, Rajendra Road, Jamnagar, Kathiawar.  
 Joharmal Gambhirmal, Near Jain Hospital, Kotah  
 Kamta Prasad Radha Kishun, Ballia, U P (Silver)  
 Keshavjee Devchand & Co., Tuticorin, S I  
 Kundan Lal Kunybehari Lal, 12, Amin-ud-Daula Park, Lucknow  
 Lachmi Narain Champa Lal, Chandni Chowk, Delhi.  
 M B Jewellers, Bhawan Mandi, B B & C I Rly  
 Madhavlal Benilal, Chowkhamba, Benares  
 Maganlal Naneklal & Co, 149, Shaikh Memon St, Bombay  
 Mangaldas Kaldas Choksey, 21, Bullion Exchange Hall, Shaikh Memon St, Bombay  
 Motamuri Bhagavanulu, Military Lines, Berhampore, Ganjam  
 Naba Kishan Dey & Bros, 8, Nolini Sett Rd, Calcutta  
 Narayandas Kedarnath, 2, Bullion Ex Bldg, Shaikh Memon St, Bombay  
 Premchand Roychand & Sons, Apollo Street, Fort, Bombay  
 Piosad Das Boial & Bros, 28, Swallow Lane, Calcutta  
 Punam Chand Ratan Chand, Shroff Bazar, Chanda, C P  
 R S Nand Lal Sadani, Sadai Bazar, Raipur  
 Raghunandan Prasad Saraf, Azamgarh, U P  
 Rai Sahib Seth Nandlal Sadani, Sadar Bazar, Raipur, C P

Manufacture of Tobacco, Snuff, Zarda, etc., Read, INDIAN TOBACCO & ITS PREPARATIONS. Rs. 2/8. Industry Book Dept., Calcutta



Raichand Premji, Khoksi Bazar,  
Junagad, Kathiawar

Ram Sewak Ram Ataram,  
Nakhas, Ghazipur, U P

Ramdayal Soman & Co, Bullion,  
Exchange Bldg, Shaikh Memon  
Street, Bombay

Sanghvi Bros, Rajkot Pura,  
Kathiawar

Sree Rama Jewellery Mart,  
Shroff Bazar, Tenali

Sri Ram Prag Dass, Cloth Market,  
Bikaner

Suleman Alibhai, Choksi Bazar,  
Viramgam, Ahmedabad

Tejpal Chand Prasad, Sadai  
Bazar, Bilaspur

Vadilal Jivabhai, Soni Bazar,  
Junagad, Kathiawar

## BUTTON MANUFACTURERS.

### BENGAL.

Bengal Button & Comb Mfg  
Works, Amligola Rd, Dacca

Bengal Industrial College, 40,  
Kapurianagar Road, Faridabad,  
Dacca (M O P & Horn)

City Button Company, 42, Maha-  
janpur Lane, Nawabpur, Dacca.

Coronation Button Manufactur-  
ing Co, Dacca (Mother-of-  
Pearl)

Dacca Button Manufacturing Co,  
Dacca

Dacca Co operative Bishan Silpa  
Samity Ltd, 53-54, Amligola  
Road, Dacca

Datta Button Factory, Shankari  
Bazar, Dacca

Dhakeswari Button Works, Gu-  
ard Road, Narayanganj, Ben-  
gal

**Dacca Button Works**, (Estd  
1908), 26, Dinanath Sen's Rd,  
Gandaria, Dacca & 19, Windsor  
House, Mission Row Extension.  
Calcutta Gram — Kutirsilpa

East Bengal Button Factory, 58,  
Sutrapur, Dacca

East Indian Button Co. 43. Ga-  
naktully, Pilkhana, Dacca

Eastern Small Industries, Laxmi  
Bazar, Dacca

Friends & Co, 33, Nabadwip Ba-  
sak Lane, Dacca

Home-made Button Mnfg Co.  
Farashganj Road, Dacca

Not a Cartel  
BUT A

# Cottage Industry

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VEGETABLE IVORY, BONE & NUTS HORN  
COMBS SHAVING BRUSHES & OTHER TRINKETS

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Samples  
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## THE DACCA BUTTON WORKS

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EXTENSION, CALCUTTA.

Gram Kutirsilpa

Phone Cal 949

**Incorporated Traders 61,**  
Municipal Office St., Dacca.Jehangir-Nagar Buttons Mnfgr Co,  
Posta, DaccaJupiter Button Mnfgr Works,  
71, Sutrapur, DaccaKohinoor Horn Button Works,  
72, Sutiapur, DaccaLakshmi Narayan Button Fac-  
tory, Jahaipur, P O Barpara,  
DaccaMoslem Button Factory, 84, Urdoo  
Road, DaccaNarayan Button Works, Narinda,  
DaccaOriental Button Manufacturing  
Co, Kapurianagai DaccaOriental Horn & Pearl Button  
Factory, Faridabad DaccaPunjab Button Factory, Waltham  
Road, DaccaSen & Sons, Krishna Mohan Das  
St., P O Wari, DaccaVictoria Button Manufacturing  
Co. Narinda, Dacca**BIHAR**Bihar Industrial Button Factory,  
P O Mehsi, ChamparanTirhoot Moon Button Factory,  
Sahebganj, P O Mehsi, Cham-  
paran**BOMBAY CITY**Gandhi Bros, 103, Swadeshi Mar-  
ket, Kalbadevi Rd., Bombay 2Gold Filled Button Manufacturing  
Co, 158, Princess St., Bombay 2India Button Works, 152, Sand-  
hurst Rd., Bombay 4National Button Factory, 95,  
Barabhai, Bombay 3Vardhaman & Sons, 1, Pydhoni  
Tram Junc., Bombay 3**BOMBAY PRESIDENCY.**Chandra Trading Co., Laxmi Rd.,  
Poona CityS N Chowdhury, Jalgaon, East  
Khandesh**CALCUTTA.**Dacca Button Works (Estd 1908),  
19, Windsor House, Mission  
Row Extension, Calcutta

Gram—Kutirsilpa, Factory—

26, Dinanath Sen's Road, Gan-  
daria, Dacca**DELHI.**

Azib &amp; Sons, Sadai Bazar, Delhi.

Bishamber Nath & Co, Sadar  
Bazar, DelhiPanna Lal Walaiti Ram, Sadai  
Khana, DelhiZain-ul-Abdin & Sons, Sarai Top-  
khana, Delhi**INDIAN STATES**Bharat Button Factory, Shahganj,  
Hyderabad, DeccanDeccan Button Factory, "Husame  
Alam," Hyderabad, DeccanGhonsia Button Factory, Kasa-  
ratte, HyderabadHyderabad Button Factory, Chai-  
minar, HyderabadL A Netto, Trivandrum, Travan-  
coreMohamadia Button Factory, Baia  
Galli, HyderabadMohd Bakhsh Imam Din, Malei-  
kotlaPrakash Button Factory, Mah-  
boob-ki-Mehni, HyderabadSagri Button Factory, Adar Kha-  
na Abban Saheb, HyderabadShanker Button Factory, Shan-  
kerkota, HyderabadWatan Button Factory, Shahganj,  
Hyderabad**MADRAS CITY.**Samson & Co, Triplicane, Mad-  
ras (Bone button)South Indian Ivory Finish Button  
Works, Royapuram, MadrasUnited Supplies Association, 20-A,  
Sunkurama Chetty St., George  
Town, Madras (Also Badges)**MADRAS PRESIDENCY.**Soans Button Works, Uthula  
P O, Kanara**PUNJAB.**

C R Khurana, Karnal

Lal Chand & Co, Inside Haum  
Gate, MultanRoop Chand & Co, Inside Haum  
Gate, MultanShamdas Manoharlal, Kale Bazar,  
Multan City**USEFUL PHRASES :** A helpful companion to all As 5.  
**INDUSTRY BOOK DEPT., Shambazar, Calcutta.**

**UNITED PROVINCES.**

Amanath Gupta & Co, Pushpa-  
lata Bhaban, Chunar, U P  
(Thread Button)

Azad & Co, (Regd), (Govt  
Contractors), Pannagunj, P O  
Box 13, Aligarh, U P  
J H Johnson Co, Aligarh

**CABINET MAKERS.**

(Also See Under Furniture Manufacturers).

Abdul Waheed & Sons, Khan-  
Mirza, Mahendru P O, Patna  
Bengal Cabinet & Motor Ltd, 47,  
Bowbazar St, Calcutta

Bose & Dey Brothers, 67, Bow-  
bazar St, Calcutta

Brimohan Banwarlal, Suraj  
Bhuvan, 83, Ghodbunder Road,  
Khar, Bombay

Calcutta Furnishing Stores, 62,  
Bow Bazar St, Calcutta

Curzon & Co, 97 Wallajah Road,  
Mount Road, Madras.

Edujee & Co, 71, Oxford Street,  
Secunderabad, Deccan

Finsbury Furnishing Co, \*Opp  
Central Bank, 30, Bruce Street,  
Fort, Bombay

Furniture Mart, 42, Neela South  
St Naganatam

Jethalal Joshi & Co, 11, Sea  
Castle opp Tilak Statue, Chow-  
patty, Bombay

K S Venkatesam Naidu & Co,  
138, Mount Road, Cathedral,  
Madras

Kamla & Das Co, Ariah, Shaha-  
bad

Mool Chandra Lall & Son, 12,  
Grand Sq, Cantt Dinapore

Ramsaran & Sons, Dakbanglow  
Road, Patna

Reliance Trading Co, Kashmere  
Gate, Delhi

Rustomji Dinshah Bihmoria, 57,  
Baibhai Mohalla, Bombay 3.

Seal & Co, 3, Karim Bux Lane,  
Calcutta

Shacoor Bros, 1, Central St,  
Bangalore

Standard Cabinet Co, 32, Chitta-  
ranjan Avenue, Calcutta Fac-  
tory—20-1, Shahmar Road,  
Howrah

**CALCULATING MACHINE DEALERS.**

British Tabulating Machine Co,  
Ltd, Gresham Building, Es-  
planade Road, Bombay

Felt & Tarrant (India), Co, Ki-  
tab Mahal, Hornby Road, Bom-  
bay

**CALENDAR PRINTERS.****BOMBAY CITY.**

Calendar Mfg Co, 62 66, Mea-  
dows St, Fort, Bombay.

**BOMBAY PRESIDENCY.**

Ait Calendars Ltd, Poona 2

Lordkin Printery, Khadia St,  
Chinubhai Rd, Opp Policegate,  
Ahmedabad (Also Mill Labels)

**CALCUTTA.**

All India Calendar Co, 3-B, Noor-  
mal Lohia Lane, Calcutta

Aroia Brothers, 152B, Harrison  
Rd, Calcutta

Britannia Calendar Mfg Co, 8,  
Ram Krishna Das Lane, Cal

Calcutta Chromotype Ltd, Gibson  
Lane, Calcutta

Calcutta Printing Co, Ltd, 98-4,  
Surendranath Banejee Road,  
Calcutta

Eastern Type Foundry & Oriental  
Printing Works, 18, Brindaban  
Basak St, Calcutta

Imperial Art Cottage, 1-A, Tagore  
Castle St, Calcutta

Oriental Calendar Mfg Co, 32,  
W C Banerjee Str, Calcutta

R M Art Press 3A, Rupchand  
Roy St, Calcutta

Tower Halfstone Co, 14C, Kapali-  
tola Lane, Calcutta

**DELHI.**

Delhi Calendar Mfg Co, Kash-  
mere Gate, (Chota Bazar),  
Delhi

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Diamond Calendar Mnfg Co.,  
Punjab Press, Sadar Bazar,  
Delhi

### KARACHI.

Valabdas Tirathdas, Market Rd.,  
Karachi

### MADRAS PRESIDENCY.

Bombay Calendar Publishing Co.,  
Bellary

H Sultanmull S S Jain, Singa-  
perumal Koil, Chingleput Dt

Kumaran Press, Conjeeveram

### UNITED PROVINCES

Advance Press, Badshahi Naka,  
Cawnpore

Commercial Press, Aryanagar,  
Cawnpore

Ganganarain Beharilal, P O.  
Box No 57, Cawnpore

Good Press, Muir Road, Cantt.  
Cawnpore

Indian Press Ltd, Allahabad

## CALICO PRINTERS.

(Also see Dyers & Bleachers).

Ahmedabad Manufacturing & Ca-  
lico Printing Co, Ahmedabad

Bajilall Jaswant Rai & Co, Sadh-  
waia St, Farrukhabad

Balanji Bhanji Dyeing & Printing  
Works, Ahmedabad

Bengal Dyers Association, 1, Can-  
nal East Bye Lane, Beliaghata,  
Calcutta

Bhupendra Dyeing & Printing  
Works, 195-197, Khetwadi Main  
Road, Bombay

Bombay Dyeing & Printing  
Works, 153-155 C P Tank Rd.,  
Madhavbagh, Bombay

Calico Printers' Association Ltd,  
Yusuf Bldg, Esplanade Road,  
Bombay

Cawnpore Dyeing & Cloth Print-  
ing Co, 73, Civil Lines, Cawn-  
pore

Empire Dyeing Mfg Co, Ltd,  
Lower Patel, Bombay

Germania Aero Printing Works,  
Jamnagar

India Prints Mnfg Co, Sadhwala.  
Farrukhabad

Indian Bleaching, Dyeing &  
Printing Works, 29, Rustomji  
Bldg, Church Gate Str, Fort,  
Bombay

Khadi Printing & Dyeing Works,  
Vitalbhai Patel Rd, Bombay, 4

Luxmi Dyeing and Printing  
Works, 41, Harimohan Bose  
Lane, Howrah

Madura Calico Printing & Dyeing  
House, South Masi Street, Ma-  
dura

Mathura Cloth Printing Co.,  
Swami Ghat, Muttra.

Native Calico Printing Works,  
P O Man, (Gujranwala)

Nirmala Dyeing Bleaching &  
Printing Works, Madhubhai  
Mills, Ahmedabad

Ramaram Shamsundar Narain,  
Sadhwara, Farrukhabad

S B Saxon & Co, Post Box No  
3, Muttra, U P

South Indian Silks Limited  
Gudiyatam, (N Arcot)

## CAMERA MANUFACTURERS.

Shevade's Camera Works Ltd,  
Belgaum, Bombay Precy.

Welling Camera Works, Belgaum,  
Bombay Precy

## CAMPBOR DEALERS.

B Champshi & Co, Lalji Godhi  
Building 209-213, Samuel St,  
Vadgadi, Bombay

Dwaikadas Bhimji 210, Karina  
Bazar, Vadgadi, Bombay

Hallacarry Estate, Coonoor

Bhavanidas Gangadas & Co,  
233-25 Samuel Street, Vadgadi,  
Bombay.

Swalka Chemical & Mineral Co  
Ltd, 28-A, Pollock Street,  
Calcutta

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Hind Candle Works, Bihmoia  
Western Indian Oil Products Co.,  
Ltd, Gandevi Rd, Bihmoia

**INDIAN STATES**

K H Abdul Qadir, 154, Ebrahim  
Sahib Street, Bangalore Cantt  
S M's Candle Works, Alleppey

**MADRAS CITY.**

South India Candle Works,  
"Devakotta House," Edward  
Elliot's Rd, Mylapore, Madras  
Thomas Rodrigo & Sons, Post  
Box 1209, Madras (Beeswax  
Wax Candles)

**MADRAS PRESIDENCY.**

Coimbatore Candle Works, Coim-  
batore  
East India Candle Works, East  
Gate, Tanjore  
Kesari Soap & Candle Works,  
Ltd, Shevapet, Salem  
Nanjappa Candle Works, Salem  
Rajeswari Soap & Candle Works,  
Buckinghampet, Bezwada  
Salem Candle Works, Gopal,  
Salem

**UNITED PROVINCES**

Indian Candle Works, Machcha  
Hata, Lucknow

**CANE & CANEWARE DEALERS.****BOMBAY CITY.**

Nazari Valibhoy Netterwala,  
Ful Gulli, Dharusmi Street,  
Bhendi Bazar, Bombay 9  
Samsuddin Bakshobhoy Netter-  
wala & Co, 375, Katha Bazar,  
Mandvi, Bombay  
Victoria Memorial School for the  
Blind, Tardeo, Bombay

**CALCUTTA.**

Calcutta Blind School Workshop,  
Behala, Calcutta Depot, 36-E  
Hogg Market, Calcutta  
Chunilal Hemraj, 70, Clive St,  
Calcutta  
James Pavne & Co, 71-E, Clive  
Street, Calcutta

Singapore Cane Mfg Co, 6, Raja  
Woodmunt St, Calcutta

**DELHI.**

Footan Chand, Mithal ka Paul,  
Delhi  
Mool Chand, Plus ki Serai, Delhi

**INDIAN STATES.**

Mysoire Rattan Works, Bazar Rd  
Mysoire

**MADRAS PRESIDENCY.**

P T Ganesh Singh & Co, Muthan-  
nan Kulam St, Coimbatore

**PUNJAB.**

Dewan Chand Anup Lal, Kucha  
Sham Singh, Rawalpindi City

**CANNED GOODS DEALERS.****BOMBAY CITY.**

Carr & Co, Ltd, Ballard Estate,  
Bombay  
Esfallu Habatbhoy & Co, Mas-  
kati House, Mahomed Ali Rd,  
Bombay 9  
Framjee Nowrojee, 9, Forbes  
Street, Fort, Bombay

**BOMBAY PRESIDENCY.**

Bhagvanji Narsai, Moti Bazar,  
Dharampur Surat  
Nagindas Palhubhai, Calemandy  
Bazar, Surat  
Nathuram N Shah, Opp The  
Market, Dharampur, Surat

Tuljaram Modi, Sataia

**CALCUTTA.**

Raja Ram & Co, 37, Giant St,  
Calcutta

**DELHI.**

Beharilal Ghasiram, Khari Baoli  
Street, Delhi  
Hafiz Shahabuddin, Gali Bata-  
sha, Khari Baoli, Delhi  
Niula & Co, Connaught Circus,  
New Delhi

**INDIAN STATES.**

Mohanlal Sankar Batt, Juna-  
gadh, Kathiawar

**Solve unemployment Problems? Read CAREERS FOR AGENTS & MIDDLEMEN. Industry Book Dept. Shambazar, Calcutta.**

**MADRAS CITY.**

Aium & Co, 69, Thuvottiyur  
High Road, Madras  
Bosotto Bros, Ltd, P O Box  
307, Madras  
Ega Venkata Kistnama Chetty &  
Son, 27, Kasi Chetty St, G T,  
Madras  
Harrison & Co, Broadway,  
Madras  
Lotus & Co, 1-18, 2-18, & 19,  
Waller's Rd, Madras  
P Mittulaul Laloh, & Sons, 21,  
Napier Street, Triplicane,  
Madras  
Udipi Sri Krishna Vilas, Mount  
Road, Madras

**MADRAS PRESIDENCY.**

Pasumarti Venkata Narayana,  
Elloire, W Godavary  
St Anthony's Charity Institutes,  
Mangalore, S Kanara

**ORISSA.**

Rustomjee P Patel & Sons,  
Buksi Bazar, Cuttack.

**SIND**

Cafe Saney, Cantonment, Hydera-  
bad, Sind.  
Sukku Sweet Mart, Navahai  
Market, Hyderabad, Sind

**UNITED PROVINCES**

Sunder Singh & Sons, Aminabad,  
Lucknow

**CANNED GOODS MANUFACTURERS.****ASSAM.**

United Fruit Co Ltd, Shillong

**BOMBAY.**

Jam Manufacturing Co, Ltd, 1,  
Sopaniabag Road, Parel, Bombay  
Madhu Canning Co., 98, Dadai  
Road, Bombay 14  
Paile Products Mfg Co, Kalba-  
devi, Bombay 2

**BOMBAY PRESIDENCY**

Cential Canning Co, Kaiwai, Ka-  
nara  
Indian Canning Co, Nadiad  
Oriental Cannery Co, Honavar,  
Kanaia (Fruit Products)  
Satyabodh Canning Works, Kel-  
shi, Ratnagiri (Mango pulp)

**CALCUTTA**

Bengal Canning & Condiments  
Works, Ltd, 3, Gurudas Dutt's  
Garden Lane, Calcutta

Dawn's Industrial Mfg Co, Roy  
Jatindra N. Choudhury Street,  
Baranagore, Calcutta  
Faim & Fruit Products Ltd, 2A,  
Grant Lane, Calcutta  
Farmer's Preserve Works, 25, Ro-  
bert Street, Calcutta  
Great Eastern Preserving Works,  
18, Blochman St, Calcutta  
Ideal Fruit Preserving Co., 67,  
Badridas Temple St, Calcutta  
(Gram "Preserved," Calcutta  
Telephone 4093 BB)  
Sheekissen Dutt & Co, 33-2, Mid-  
dle Road, Entally, Calcutta

**DELHI**

Harnaman Gopinath, Khari  
Baoli, Delhi  
Indian Delicacies Manufacturing  
House, Egerton Road, Delhi

**INDIAN STATES.**

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**MADRAS PRESIDENCY.**

A V Balchamy Nadai, Aruppukottai, Ramnad (Jam)

English Bakery (Regd), Trichy Road, Coimbatore

India Canning Industries Ltd., Bezwada, Kistna Dt

Mangalore Home Industries, Hampankatta, Mangalore, S K

**CANVAS & CANVAS GOODS MERCHANTS.**

A. S E Soobashah Bros, 83, Clive Street, Calcutta.

Bird & Co, Chartered Bank Bldgs, Clive St, Calcutta

Bukmyie Bros, 8, Clive Row, Calcutta

Bombay Trading Co, Balia Bldgs, Pydhoni, Bombay

Dossa Hurjee Popat House, 255-59, Musjid Bunder Road, Bombay

F. Hailey & Co, 5, Dehi Serampore Road, Entally, Calcutta

H Bevis & Co, Cawnpore

Hassan Ali Chowdhury & Co, 2-4, Chandney Chowk, Calcutta

Hemraj Ramji, Krishna Nivas, Musjid Bunder Road, Bombay

**PUNJAB.**

Glacier Products, (India), Pathankot, Gurdaspur

**SIND.**

J. B. Mangharam & Co., Hd Office—Sukkur, Sind Br—Calcutta, Bombay & Delhi.

**UNITED PROVINCES.**

G G Flint Preserving Factory, Agra.

Kilburn & Co, 4, Fairlie Place, Calcutta

Manton and Martin, 50, Clive Street, Calcutta.

N G Ghose, 71B, Clive Street, Calcutta

Roberts Mc Lean & Co, Ltd, 101, Clive St, Calcutta.

S M Menty & Co, 11-13, Elphinstone Circle, Fort, Bombay

S N Mookerjee & Brother, 113, Monohar Das Chawk, (Clive St), Calcutta

Stores Supply Syndicate, 20, Strand Road, Calcutta

Sures Reshecase Dutt & Co, 32, 33 College St Market, Cal

Willesden Paper & Canvas Works Ltd, 19, Convent Rd, Calcutta

**CANVAS & RUBBER SHOE MANUFACTURERS.**

(See under Rubber Goods Manufacturers).

**CAP MAKERS.****AJMER-MERWARA.**

Cap House, in Front of Clock Tower, Ajmer

Gordhan Das Munna Lal, Madar Gate, Ajmer.

Mangal Lal, Dhan Mandi, Beawar, Merwara Dt

**BOMBAY CITY.**

Dinshaw B Mistry, Jer Mahal, 532, Kalbadevi Rd, Bombay

Parbhoo Bhagwan Topiwala, Satya-Nivas, 177, Bazar Gate St, Fort, Bombay

**BOMBAY PRESIDENCY.**

Ambaram Harkisandas, Mahidhapur, Kumbharseri Surat

B. Jariwala, Buranpuri Bhagol, Surat

C G Bhyade, Janjua Mund, Kolaba.

G P Naik, Lakshmi Cap Depot, Khade Bazar, Belgaum

Hajmia Abdullahi, Jotingshah Pirs Pole, Kaloorpur, Ahmedabad

K Y. Kulkarni, Nasik City

Malkarjunapa Metie, Manik Chowk, Sholapur

Morari Kalyanji Dahayabhai & Co, Budhwar Chowk, Poona 2

Nagindas Jethabhai, Limda Chowk, Chanchava sei, Surat

National Cap-mart, Kanpith Bazar, Surat

Prabhudas Lalubhai, Bhagatalao, Surat.

R D Vithaldas, Budhwar Peth, Poona 2.

Organise your business with hints from "Theory & Practice of Commerce and Business Organisation." Rs. 4/8. Industry Book Dept., Calcutta.

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A Khaliq, 15, Nilmoni Haldar Lane, Calcutta  
 Delta Trading Co., 8, Canal Rd., Hastings, Calcutta  
 Haji Abdool Rushd Mullick Bros., D64 & 64-1, Hogg Market, Calcutta.  
 Punjab Cap Depot, 164, Harrison Road, Calcutta

**CENTRAL INDIA.**

Jain Bulchand Jee Chuni Lall, Maneck Chowk, Ratlam

**CENTRAL PROVINCES.**

Dullabh Jiwan, Itwari Bazar, Nagpur City  
 Kundan Lal Baboo Lal, Katni.  
 Mani Shankar Trikamji, Inside Bhusari Gate, Amraoti  
 Supsande Bros., Sitabaldi, Nagpur

**DELHI.**

Ansari Cap House, Sukhwala, Delhi  
 Jam Brotheis, Dariba Kalan, Delhi  
 Joti Pershad Bija Mal, Baia Dariba, Delhi  
 Mantaz Cap House, Katra Barian, Delhi  
 Poshaki Mall Nihal Chand, Chandni Chowk, Delhi

**INDIAN STATES**

Allumaiya Bros, Rajkot Pura, Kathiawar  
 Asaram Munnalal Krishnapura, Indore City  
 Baroda Cap Depot, Rajmahal Rd., Baroda  
 Dayaram Kuvarji, 42 & 43, Old Poor House Road, Bangalore  
 Dharamshi Ramji, Junagadh, Kathiawar.  
 Egyptian Cap Mart, King Koti Rd., Hyderabad  
 Karsandas Vallabhdas, Junagadh, Kathiawar  
 Khaker Dass, Bhabian Bazar, Bahawalpur  
 M Mohammad Azam & Co, Salar Jung Building, Hyderabad

Manak Chand Manmal, Krishna-pura, Indore City  
 Nathalal Dayabhoy, Market, Sayyaji Road, Mysore  
 Omarbhai Mahmadbhai, Opp Sui Sagar Tank, Baroda  
 Premji Jivabhai, Shioff Bazar, Bhavnagar, Kathiawar.  
 Raja Lallu Ramji, Junagadh  
 S B Amolakchand & Co, Chickpet, Bangalore City  
 Sri Padmamba Cap Mart, Chikmagalur, Mysore  
 Sunajmal Daulatram, Krishna-pura, Indore City  
 Syed Yusuff & Bios, 268, Big Bazar, Bangalore City  
 T Sanjivai, Santhepet, Tumkur City, Mysore State

**KARACHI**

Bhika Govind, Bunder Road, Karachi (Velvet Cap).

**MADRAS CITY.**

A Thanga Durai, 8, Nynceappan St, G T, Madras  
 K Abbu Meyan & Sons, 2, Venkata Maistry St, Madras  
 United Suppliers Association, 20A, Sankuama Chetty Street, G T, Madras

**N. W. F. PROVINCES.**

Taj Cap Factory, Khawaja Ganj, Hoti, Dt Mardan

**PUNJAB.**

Madho Pershad, Prabhu Dayal, Gokal Gate, Rewari, Gurgaon  
 New Egerton Woollen Mills Co., Dhariwal (Balaclava Caps)

**SIND.**

Muslim Cap House, Main Bazar, Halla, Sind

**UNITED PROVINCES.**

Bankey Lall & Sons, Meston Road, Cawnpore  
 Bedi Chand Paran Chand, Trikona Bazar, Agra  
 Brij Narain Raj Narain, Kirana Bazar, Farrukhabad  
 British India Corporation Ltd., Cawnpore  
 Chheda Lal Bhola Nath, Katia Ahmedganj, Farrukhabad

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Lucknow  
Khuni Lal Nanak Chand, Kirana  
Bazar, Farrukhabad.  
L Perialall, Bazzaza Bazar,  
Meerut  
M Fazal Ahmad Saddiqui, Bazar  
Chowk, Moradabad  
Mohomed Wasig, Moulgunge,  
Cawnpore  
Mooti Lal Joti Piosad, Bazzaza  
Bazar, Meerut City

Ram Chandia Bishwa Nath, Katia  
Ahmadganj, Farrukhabad,  
S Abdul Halim Abdul Jalal,  
Kirana Bazar, Farrukhabad  
Sahai Shah Adul Shah, Moul-  
gunge, Cawnpore  
Siddh Gopal Raja Ram, Kirana  
Bazar, Farrukhabad  
Tajammul Hussain Mohd Yaqoob  
Bazar Kulaf, Bareilly  
Uttam Singh & Gautam, Lala  
Ka Bazar, Meerut

### CARBIDE DEALERS.

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Chitpui Road, Calcutta  
Radha Kanto Dass & Sons Ltd,

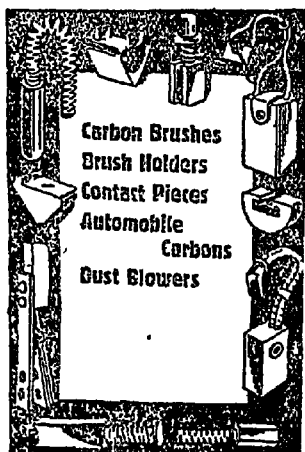
211, Old China Bazar St, Cal  
Shaw Wallace & Co, 4, Bankshall  
Street, Calcutta

### CARBON BRUSH & PLATE MANUFACTURERS.

Boseck & Boseck, Boseck House,  
18, Prinsep St, Calcutta  
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21, Paisee Chuich St, Calcutta  
Calcutta Electric Engineering Co,  
1, Manook Lane, Calcutta  
Chicago Engineering Works, 84-A,  
Clive St, (Room No D 5), Cal  
City Commercial Agency, 53-2,  
Bosepara Lane, Calcutta

Dato's Mineral Supply Co, 24/1,  
Omda Raja Lane, Calcutta.  
Garford Engineering Works, 18,  
British Indian St, Calcutta  
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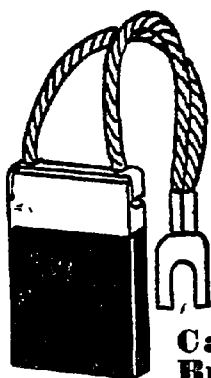
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Bengal Industrial Co, 21, Gopal  
Chandia Bose Lane, North  
Sinthi, Cossipore P O, Cal

Bengal Ribbon Works, 79, Sam-  
bhu Nath Pandit St, Calcutta

Bharat Carbon & Ribbon Manu-  
facturing Co., Ltd, People's In-  
surance Building, Sir Phiroz-  
shah Mehta Road, Fort, Bom-

bay, 19, British India Street,  
Calcutta

Chalasani & Co, "A"-8, Noble  
Chambers, Parsi Bazar St,  
Fort, Bombay.

Hindusthan Carbon & Ribbon  
Factory, 29, Bagmati Rd, Cal  
Typewriter Ribbon Works, Banki-  
pore, Patna

### CARBONIC ACID GAS MANUFACTURERS.

Ambala Aerating Gas Co, Buin  
Bastion Rd, Delhi

Bengal Aerating Gas Factory,  
Ltd, 42, Gaiden Reach, Cal

Cawnpore Aerating Gas Co Ltd,  
Carbondale Works, Cawnpore

Central Aerating Gas Co, Grand  
Trunk Road, Ambala Cantt

Frontier Chemical Works, Rawal-  
pindi.

Hajee Ismail Sait & Sons, Ltd,  
Russa Distillery, Tollygunge,  
Calcutta

Indian Oxygen & Acetylene Co,  
Ltd, 48, Diamond Harbour Rd,  
Calcutta

Murree Brewery Co Ltd, Rawal-  
pindi.

Punjab Sugar Works & Carbonic  
Acid Gas Co., Sujampur, Gurdas-  
pur, Punjab (Also Distillery)

Shahmar Tar Products (1935),  
Ltd, 6, Lyon's Range, Calcutta

Sirdar Carbonic Gas Co, Ltd,  
Connaught Road, Mazagaon,  
Bombay.

Spencer & Co, Ltd, Allahabad  
Road, Cawnpore

T. Ali Mahomed & Co, Hala wa-  
la Bldg, 146, Bhoosari Mohalla,  
Bombay

### CARDAMOM DEALERS.

#### BENGAL.

Mannam Nanoolam, P O, & Rly  
Sta Kalimpong, Darjeeling  
(Commission Agents for Carda-  
mom)

#### BOMBAY.

Chandrakant Tapidas & Co,  
78-80, Muchi St, Mandvi, Bom-  
bay.

**Oriental Import & Export  
Agency**, 52, Shikrishna Ni-  
vas, New Silk Bazar, Kalba-  
devi Road, Bombay (Also  
Black Pepper)

#### BOMBAY PRESIDENCY.

Muregepa Hordi, Haveri, Dhar-  
war.

N. G. Naduvenamath, Haveri,  
Dhawal

Sangapa Rachapa Magnai, Ha-  
veri, Dharwar.

#### CALCUTTA.

Ram Chandra Parshottamdass,  
22, Amratala St, Calcutta.

#### INDIAN STATES.

Agglatti Estate, Sakhalaspur P. O.,  
Mysore

Alaga Cardamom Co Ltd, Quilon,  
Travancore

Amgode Cardamom & Pepper  
Estate, Sakhalaspur, Hassan,  
Mysore.

Balun Estate Ltd, Javali P O,  
Kadur, Mysore

Bergemaery Cardamom Estt,  
Mudigani, Hassan, Mysore

Bhadia Valley Estates, Ltd,  
Kalasa P O, Kadur, Mysore

Chetenhalli Estate, Mudigere  
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Dataypale Estate, Ballupete P O,  
Hassan, Mysore.

Goniayhutti Estate, Attikan, Mysore.

Gudampala Caidamom Estate,  
Surjanalle, Devicolam, Travancore.

Hailay Estate, Alur P O, Kadur, Mysore

Hosegooda Estate, Sakhaspuri P O., Hassan, Mysore

Kadur Estates Ltd, Jayapura P O, Kadur, Mysore

Kammegode Estate, Mudigere P O, Kadur, Mysore

Kelagur Estate, Javali P O, Kadur, Mysore.

Ossor Estate, Hassan, Mysore

Rudrasuri Caidamom Estt, Kumbarahalli, Hassan, Mysore

Sumsay & Abiagoodigay Estates  
Hirebile P O, Kadur Dt

#### MADRAS PRESIDENCY.

Cowcoody Estate, Somwarpett P. O, North Coorg, S I

Cullally Estate, Somwarpett P O, North Coorg, S I

Hill Tiller & Co, Mangalore

Kuppamudi Estate, Sultan's Battery, Malabar.

M. S P. Senthikumaia Nadar & Sons, H O. Virudhunagai

N Nemiraja Padival, Mangalore.

Nagar Srinivasa Rao, Mangalore.

Pambadampala Estate, Ullampalayam, Kodaikanal Road, Madura

Volkart Bros, Tuticorin, S I

#### CARDBOARD MANUFACTURERS.

Eastern Paper Mills Co, Ltd, 167,  
Old China Bazar St, Calcutta

India Paper & Board Mills Co,

Ltd, 71, Setgachi Road, Dum  
Dum, Near Calcutta.

Strawboard Manufacturing Co,  
Ltd, Ewing Rd, Lahore

#### CARDBOARD BOX MANUFACTURERS.

(See also Paper Box Manufacturers).

Albion Cardboard Box Mfg Co.,  
6B, Kanai Seal St, Calcutta

All India Order Supply Works,  
3B, Noormal Lohia Lane, Calcutta

All India Printing & Card Board  
Box Factory, 58-1, Nimtolla  
Ghat St, Calcutta

Amitava Trading Co 351, Upper  
Chitpore Rd, Calcutta

Aitisan & Co, P O, Mount Road,  
Madras

Asian Industrial Corporation,  
Adamjee Budabhoj Road,  
Karachi.

Aurora Printing House, 31, Sitala-  
tala Lane, Calcutta

Bengal Card Board Box Factory,  
3-B, Noormal Lohia Lane, Cal

Bengal Cardboard Industries &  
Printers Ltd, 165, Cornwallis  
Street, Calcutta.

Bhattacharjee & Co, 21-4, Jay  
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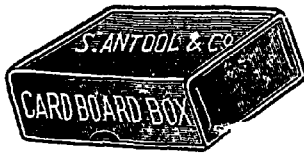
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Printing Works, 8-1, Chowin-  
ghee Lane, Calcutta  
Cardboard Materials & Printing  
Co., 7, Convent Rd, Calcutta  
Corries Church Card Board Box  
Factory, 86, Baitakkhana Road,  
Calcutta  
D M Malgotra & Sons, Chawk  
Moni, Gali Nihal Singh, Amrit-  
sar.  
Eureka Works Cardboard Box  
Co., 60B, Keshab Ch Sen St,  
Calcutta  
Ganga Box Manufacturing Co.,  
1A, Herambo Das Lane, Cal  
Gogate Paper Box Works, Prin-  
cess St, Bombay  
**H. L. Sett & Sons**, 21, Jadu  
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4, Fairlie Place, Calcutta  
International Card Board Box  
Mnfg Co, 7, Sristidhar Dutt  
Lane, Hatibagan, Calcutta

James Glendye & Co, 6, Chow-  
ringhee Road, Calcutta  
K Gupta & Co, 49, Gurpari Road,  
Calcutta  
L B. Varma & Co, Juhu, Cawn-  
pore  
M R Dey & Co, 14-2 Old China  
Bazar Street, Calcutta  
National Card-Board Box Factory,  
26-A, Kahi Dutta St, Calcutta  
New Cardboard Box Mnfg Co,  
149, Lower Chitpore Rd, Cal  
Paper Products Co, Roberts Rd,  
Lahore  
Pioneer Box Factory, Makhania  
Bazar, Cawnpore  
Pioneer Card Board Box Mfg  
Co, 64, Ezia St, Calcutta  
R Pandya & Sons, Swaminata-  
yan Chawl, Freire Rd, Karachi  
S Antool & Co, 91, Upper Cu-  
culai Road, Calcutta  
Sen & Co, 3-B, Beadon Sq, Cal.  
Unique Cardboard Box Mfg Co,  
12, Grey Street, Calcutta  
Unity Box Mfg Co, Bazar Sara-  
fan, Ludhiana  
**Universal Cardboard Box  
Factory**, 54, Ezra Street, Cal

### CARPET WEAVERS & DEALERS.

#### BALUCHISTAN

Gorji Bros, Kandhari Bazar,  
Quetta

#### BENGAL.

Shreeshanuman Jute Mills, Ghoo-  
sery Howrah, 61, Harrison  
Road, Calcutta (Jute carpet)

#### BOMBAY CITY.

Abdulla Abdulkarim, 49, Abdul  
Rehman St, Bombay

**Asiatic Fur & Carpet Store**,  
2, Waterloo Mansions, Opp  
"Regal," Fort, Bombay B —  
Bombay Building, Mayo Road,  
Lahore

Ebrahimji Peerbhoy & Sons, 114,  
Laxmidas Market, Sheikh Me-  
mon St, Bombay 2 (Durrries)  
Indian Industries Palace, 38, Car-  
nac Budge, Bombay  
Jassani Carpet Co, 47, Pydhonie  
Rd, Khadak, Bombay No 9

Lalji Govindji Shah, 4th Lane,  
Chandia Chowk, Mulji Jetha  
Market, Bombay  
Munshi & Co, 167A, Ripon Rd,  
Bombay 8  
Shukla Carpet Co, Athun Bun-  
del, Colaba, Post Box 685,  
Bombay

#### BOMBAY PRESIDENCY

Bijapur District Prison, Bijapur.

#### CALCUTTA

Abdul Kadri & Sons, 17, Park St,  
Calcutta  
British India Carpet & Rug Em-  
porium, 30-1, Free School St,  
Calcutta  
Shyamjee Deoraj, 46, Cross St,  
Calcutta  
U P Government Arts & Crafts  
Agency, Karnani Mansions  
Gate, Free School St, Calcutta

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**DELHI.**

Bhagwan Das & Co, Chawri Bazar, Delhi  
Chhotey Lall & Sons, Baird Wala Street, Delhi.  
East Indian Carpet Co Ltd, New Delhi.  
Fakir Chand Raghunath Das, Ivory Palace, Near Juma Masjid, Delhi.  
Gopi Nath, Kashmere Gate, Delhi  
Master & Co, Connaught Place, New Delhi

**INDIAN STATES.**

Anantharamiah's Carpet Factory, Bangalore City.  
B K Subbiah & Sons, Souastipuram, Bangalore City.  
Bangalore Industries, Shankarpur, Basavangudi, Bangalore  
Bhadoli Carpet Co., New Bazar, Bhadohi, Benares State  
British India Carpet Co, Bhadohi, Benares State  
C H Shambulingappa & Bios, 27, Mills Road, Bangalore City  
C M Hadow & Co, Srinagar, Kashmir.  
East India Carpet Co Ltd, Srinagar, Kashmir, Civil Lines, Amritsar, Connaught Place, New Delhi, Belanganj, Agra  
Hindustan Carpet Company, Bhadohi, Benares State  
India Carpets Co, 49, Gandhi Nagar, Bangalore City.  
Indian Carpet Manufacturing Co, Bhadohi, Benares State  
Jaharmall Balmukund, P O Bhadohi, Benares State  
Kailash Carpet Factory, Srinagar  
Kaiser-i-Hind Woollen Mills, Hebbal, Bangalore  
Kotru Bios, & Co, "Govind Nivas," Srinagar, Kashmir  
M A Samad & Bios, Samad Bldg, Bhadohi, Benares State  
M Muniswamian, Jamkhanpet, Bangalore City.  
M Tahni & Bios, Khamaria, Benares State  
Mitchell & Co, Ltd, Srinagar, Kashmir  
Mohammad Ibrahim Azimullah, Bhadohi, Benares State

Narasimha Iyer, S 29, Carpet St, Bangalore City  
Shah Ali Mian Carpet Factory, Alampur, Raichur, Hyderabad

**LAHORE.**

Allah Baksh & Sons, Lahore.  
Kashmir & Kabul Stores, Hall Rd, Lahore.  
Madan Lall Mohan Lal Kapur, Cantonment, Lahore  
Surjan Mall Kishen Chand, Rang Mahal, Lahore.

**MADRAS CITY.**

Kishanchand Chellaram, Mount Road, Madras.  
Madras Exports, 3, Bells Road, Triplicane, Madras.  
Taylor & Co, Armenian St, Madras.

**MADRAS PRESIDENCY.**

Bheema Industrials, Bhavani, Via Erode, S. I. Ry.  
Gupta & Co., Adoni, Bellary.  
Indra Carpet Work, Bhavani P O, Via-Erode  
Industrial Woollen Carpet Manufacturing Factory, Sanyasi Goundan Road, Salem.  
N Nadimullah B Abdul Razak Nizami, Adoni, Bellary  
Sree Saiadha Industrials, Bhavani P O, (Via) Erode, (S I R)

**N. W. F. PROVINCE.**

Abdul Rashid Inayatullah Savul, Katia Masjid, Peshawar  
B R Mehra & Co, Peshawar  
Hari Chand Kapoor & Sons, Chawk Bazaza, Peshawar.  
J S Narang & Sons, The Mall, Peshawar  
M Abdulla Ghulam Hussain, Paracha Kelab, Peshawar  
Mohammed Yakub & Sons, Inside Kabul Gate, Peshawar  
Moolchand & Sons, Kabul Gate, Peshawar; The Mall, Simla

**PUNJAB.**

Ambala Durrie Store Ambala City  
Balmukand Des Raj, Chauha Bazar, Ludhiana  
Beharilal Rattanchand, Haupur, Amritsar.  
Davi Sahi Chambamall, Hall Bazar, Amritsar

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East India Carpet Co., Ltd., Amritsar.  
 Ganeshi Lall & Sons, The Mall, Simla  
 Gobind Ram Sant Ram, Ambala City (Durry)  
 Haji Saleh Mohammad, Gulam Mohammad Waizen & Son, Hall Bazar, Amritsar  
 Hans Raj & Co., Amritsar.  
 Hariham Jogia Ram, Multan City  
 Ishar Das & Sons, Katia Maha Singh, Amritsar  
 Jagendra Mohan Tani, Puna Bazar, Chhambian's St., P O Box No 3, Ludhiana.  
 Jeessukh Raj Pearey Lal, Ambala City.  
**Khan Bahadur Shaikh Gulam Hussun & Co.,** Sohgaith Gate, Amritsar.  
 L. Kundan Lall, Chuni Lall, Ambala City.  
 Mehai Chand Babu Ram, Ambala  
 Muhammad Mui, The Mall, Simla  
 Sewaram Thakaldas, Leiah

**SIND.**

Gulwaney Bros & Co., H O Sukkur, Sind  
 Khamiso Khan, Bubak, Dadu  
 Mohd Ibrahim, Bubak, Dadu

**UNITED PROVINCES.**

Agia Cantt Dayalbagh Stores Ltd., Dayalbagh, Agia  
 Ahmadullah & Ahsanullah, South Gate, Mirzapur.  
 E Sefton & Co., Mirzapur  
 Gudharilal Beni Prasad, South Gate, Mirzapur  
 Great Eastern Carpet Company, Jaisac House, Mirzapur

Haji Pheku Jan Mohamad, Amilha St., Mirzapur  
 Haji Shaikh Abdul Karim, South Gate, Mirzapur  
 Hanuman Prasad & Co., Mirzapur  
 J Tandon & Co., Mirzapur  
 Jan Mohamed & Bros, Imlaha, Mirzapur  
 Kailas Carpet Co., Dholpur House, Agia.  
 Kalyandas Bios, Bulanala, Benaries City  
 Lalita Prasad Bios, Duncan Gunj, Mirzapur  
 Madan Mohan Jain, Kasairat Bazar, Agia (Also durries)  
 Madaullah Abdul Karim, South Gate, Mirzapur  
 Mahadeo Prasad Jagannath Prasad Jaiswal, Sabri, Mirzapur.  
 Mohammad Hussain & Son, Imlaha, Mirzapur.  
 O Weland & Co., Agia  
 Prahlad Narain Rupnarain, Malthan St., Agia City.  
 Rahamatulla & Bios, Mirzapur  
 Rajendra Prasad & Co., Mirzapur City (Carpet & Durree)  
 Ram Lall Ram Bilas, South Gate, Mirzapur.  
 S A. Jahl South Gate St., Mirzapur  
 S Husainy, Imlaha, Mirzapur  
 S Jain Karmat Ali & Co., Mirzapur  
 S Lutfui Rahman & Biotheis, Imlaha, Mirzapur  
 Saikh Salamatullah, Mirzapur  
 Sita Ram Bhargava & Co., Wellesleygunj, Mirzapur  
 Uttamchand Baboolal, Lohangali, Agia

**CART WHEEL MANUFACTURERS.**

Balti Barahai, 3, Nitya Ghosh Street, Kidderpore, Calcutta  
 Mukundalal Bairdhan, 33/2, Munshiganj Road, Kidderpore, Cal  
 Suraybali Barahai, 3, Nitya Ghosh Street, Kidderpore, Cal

**CASEIN MANUFACTURERS.**

Casein Trading Co., Anand  
 Doshi Bros, Anand  
 Khartan Sons & Co., 1, Commercial Buildings, Chive St., Cal  
 Law Murray & Co., 2, Cornwallis St., Cal (Phone BB 3346)  
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 Search Light Dairy Farm, Anand

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Meerut City Factory Kotla  
St, Meerut City.

Western Creameries, Nadiad,  
(Bombay)

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Aideshu Piroshaw Tata, 70,  
Khand Bazar, Mandvi, Bombay  
3 (Cutch and Katha).  
Bahadurmal Catechu Factory,  
Champa, C P

Indian Wood Products Co, Ltd,  
Izatnagar, Bareilly, 8, Clive  
Street, Calcutta

### CAUSTIC SODA MANUFACTURERS.

Alkali & Chemical Corporation of  
India Ltd., Rishra, Hooghly,  
18, Strand Rd, Calcutta

Rohtas Industries Ltd, (Chemical  
Industry), Dalmnagar, Shahab  
bad

Dhanganadha Chemical Works  
Ltd, Dhanganadha, Kathiawar

Swaika Chemical & Mineral Co  
Ltd, 28-A, Pollock Street, Cal  
Tata Chemicals Ltd, Mithapur,  
Kathiawar

### CELLULOID GOODS MANUFACTURERS.

#### BENGAL.

Jessore Celluloid Works, Jessore  
Jessore Comb Industry Co,  
Jessore.  
Kion Products Ltd, Jessore  
(Bengal).

Indian Celluloid Works, Ltd, 99C,  
Garpai Road, Calcutta  
Swadeshi Industries Ltd., P23,  
Vivekananda Rd., Calcutta

#### CALCUTTA.

Calcutta Celluloid Works Ltd, 37,  
Canning Street, Calcutta  
Deshbandhu Agency, 6-B, Butto  
Kristo Lane, Hatkhola, Cal  
Hoosani Celluloid Works, 127,  
Kankurgachi 3rd Lane, Cal

LAHORE.  
Indian Celluloid Works, P O Mo  
del Town, Lahore

#### PUNJAB.

Punjab Celluloid Works, Jullun-  
dun.

#### UNITED PROVINCES.

Celluloid Goods, Balak Ram  
Nagai, Ganeshganj, Lucknow

### CEMENT DEALERS.

#### BENGAL.

Kishori Mohan Paul & Co, Chak-  
tai, Chittagong  
Paresh Chandra Banerji, Sadar-  
ghat Rd, Chittagong

Dharamsey Muhaj Khatau, 2-B,  
Laxmi Buildings, Ballard Road,  
Fort, Bombay.

#### BOMBAY.

Associated Cement Companies  
Ltd, Esplanade House, Waudby  
Road, Bombay, Victoria House,  
Calcutta

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22, C P Tank Rd, Bombay 10  
Jafferji Valjee & Co, Mandvi  
Mirohi Gali, Bombay 3.

C. Nandlal & Co, 30, Gulalwadi,  
Kika St, Bombay

Killick Nixon & Co, Home St,  
Fort, Bombay  
Shapoorji Pallonji & Co, 70, Mea-  
dows St, Fort, Bombay

Cement Marketing Co of India  
Ltd, Esplanade House, Waudby  
Road, Bombay

Concrete Association of India,  
20, Hamam St, Fort, Bombay

D Dhrujalal & Co, Narayan  
Nivas, Cavel Cross Lane, 3,  
Bombay.

BOMBAY PRESIDENCY.  
Bhailal Morarjee Rao, Bhai-  
wada, Nadiad, Kaira  
Rashid Khodabad & Co, 81, Main  
St, Poona Camp  
Trikamlal J Desai & Co, Bhatta-  
wadi, Ahmedabad

#### CALCUTTA.

Assam Bengal Cement Co, Ltd,  
7, Wellesley Place, Calcutta

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Balmer Lawrie & Co, Ltd, 103, Clive St, Calcutta  
 Bharat Trading Co, Ltd, 29, Banstolla St, Calcutta  
 Dalmia Cement & Paper Marketing Co, Ltd, 20, Beadon Street, Calcutta  
 Martin & Co, 12, Mission Row, Calcutta  
 N S Kavarana & Son, 72-1, Clive St, Calcutta

**CENTRAL PROVINCES.**

T C Bajan & Co, Katni

**DELHI.**

Bhannamal Gulzaimal, Chowli Bazar, Delhi  
 Bird & Co, Delhi B1—Lahore, Cawnpore  
 Delhi Cement Syndicate, Outside Ajmere Gate, Delhi  
 Mahabir Persad & Sons, Chowli Bazar, Delhi  
 S N Sunderson & Co, Outside Ajmere Gate, Delhi

**INDIAN STATES.**

Khan Bahadur Ahmed Alladin & Co, Secunderabad, Deccan  
 L Shahzada Mall Mukanda Mall, Sangrui, Jind State

Marwai Cement Co, Station Road, Jodhpur  
 Vora Taiyabji Badalbhai & Sons, Rajkot, Kathiawar

**MADRAS CITY.**

A M Badruddin & Co, No 28, Langa Chetty St, Madras  
 Mahomedally Sarafally & Co, No 10, Sembudoss St, Madras  
 Parry & Co, North Beach Road, Madras

**MADRAS PRESIDENCY.**

Andhra Cement Depot, Govenorpet, Bezwada  
 Aspinwall & Co, Ltd, Tuticorin, Tinnevely  
 B Srinivasan & Sons, Shevapet, Salem  
 Cement & Lime Stores, Naisapur, Dt Godavari  
 Pasumaity Venkata Rao Chetty, Chinnamvay St, Vizagapatam

**UNITED PROVINCES**

Gaiga Engineering Stores, 28, La-Touche Road, Lucknow.  
 Mathuria Prasad Baldeo Prasad, Kanauj

**CEMENT MANUFACTURERS.****ASSAM.**

Assam Bengal Cement Co Ltd, Chittak, Assam Hd Office — 7, Wellesley Place, Calcutta

**BENGAL.**

Howrah Cement Works, 1, Kali Prasad Chakravarty Lane Howrah

**BIHAR.**

Bihar Lime & Cement Co, Ltd, Jhajha, Monghyr  
 Rohtas Industries Ltd, Dalmianagar, Dehri-on-Sone, Shahabad  
 Sone Valley Portland Cement Co Ltd, Japla, Bihar H O—12, Mission Row, Calcutta

**CENTRAL PROVINCES.**

Bilaspur Lime & Cement Co, Bilaspur  
 C P Portland Cement Co, Ky-more, Jabulpore (Swastika).

Katni Cement & Industrial Co, Ltd, Katni, C P (Castle)  
 United Cement Co, of India, Mehgaon, Jubulpore.

**INDIAN STATES.**

Bundi Portland Cement Co, Ltd, Lakheri, Bundi Killick Bldg, Bombay, Imperial Bank Bldg, Delhi  
 Cement Marketing Co of India Ltd, Asiatic Buildings, Kempegowda Road, Bangalore City  
 Gwalior Cement Co, Ltd, Bawmore, Gwalior  
 Indian Cement Co, Ltd, Porbandar, Kathiawar  
 Marwai Cement Co Jodhpur  
 Okha Cement Co, Ltd, Dwarka  
 Patiala Cement Co Ltd, Surajpur, Patiala State  
 Renco Works P O Sheshadripuram, Bangalore

**FOR DURRIES CARPETS, AND FURNITURE, PLEASE WRITE TO—  
 GAURI SHANKER RAM NARAIN, BARA BAZAR, BAREILLY.**

**MADRAS PRESIDENCY**

Andhra Cement Company Ltd.  
Vizagapatam  
Coimbatore Cement Works, P O  
Madukarai, Dt Coimbatore

**PUNJAB.**

Dalmia Cement Ltd, Dendot R S,  
Dt. Jhelum.  
Punjab Portland Cement Works,  
Ltd. Wah, Attock

**CHAMOIS LEATHER DEALERS.**

H Peer Mohd Shamsuddin, Delhi

National Tannery Co, Ltd, 12,  
Mission Row, Calcutta

**CHARCOAL MERCHANTS.**

B Venugopal Naidu & Co, 24,  
Tievelyan Basin St, Madras  
Babarrao N Gita, 729, Shanwar,  
Sataia City  
Baboo Jagadeo Singh Sasasher  
Singh, Sewee, Bombay.  
Chhagan Moolji Khoja, 10-C, Hill  
Road, Bandra, Bombay  
Ebrahim Moolji Khoja, Coal  
Depot, Haji Bunder, Bombay

Haji Abdulla Haji Alimohamed  
& Sons, 10, Kolasa Cross Lane,  
Pydhowrie, Bombay

Khemka & Co, 37, Bahwan Dutt  
Lane, Calcutta Godown —  
Garden Reach Goods Station,  
Kidderpore

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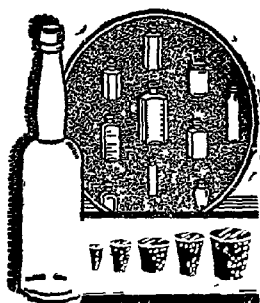
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Sri Ganesh Medical Stores, Im-  
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cy, Tinsukia

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Swasthya Nilaya Pharmacy, Dharwar, Bombay

Universal Medical Stores, Princess Street, Bombay

Vallabh Vijay Chemical Co, Sheikh Memon Street, Bombay

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G. V. Shindle & Sons, Budhwar-peth, Kotwal Chavi, Poona 2

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 Bal Bahar Pharmacy, Chandni Chowk, Delhi  
 Chhajju Ram & Sons, Connaught Place, New Delhi  
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Herbs & Chemical Coy, Basl Kiratpur, E I Ry	Saxena Medical Hall, Farrukhabad.
Herbs Chemical Works, Arai Bazar, Dehra Dun	Sharma Medical Hall, Main Rd, Mainpuri
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Calcutta Clinical Research Association, Ltd, 6, Chowringhee Road, Calcutta  
Calcutta Polyclinic Ltd, 6A, Surendranath Banerjee Rd, Cal

Central Polyclinic & W R Laboratory, 181, Dharamtola St, Cal  
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Jamnadhhar Poddar, Ranchi

Jiwanram Ramchandra, Bhagalpur

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Ram Chandar Firaya Lal, Main Road, Ranchi.

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Baldevdas Jannadas & Co, Dharanraj Guly, Mulji Jetha Market, Bombay.

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C P. Shah & Co, Radha Guly, Morarji Goculdas Market, Bombay.

Cawnpore Mills Depot, Churchgate House, Churchgate Street, Fort, Bombay.

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Chhaganlal Laxmidas, Nagindas Ghellabhai Bldg, 98, 3rd Bhoiwada, Bhuleswar, Bombay.

Chhotalal & Co, Radha Guly, 129, Morarji Gokaldas Market, Kalbadevi Road, Bombay.

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D Bhagwandas & Co, 3rd Lane, Mangaldas Market, Bombay.

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Mulji Jetha Market, Bombay.  
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sad, Gujarat  
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St, Shantinath's Pole, Ahmeda-  
bad  
Mohanlal Mapuji, Detroit, Viram-  
gam, Ahmedabad.  
Murlidhar Pharashram Chum-  
bhle, Old Cloth Market, Nasik.  
Nagappa Arleppa Abdulpakar.  
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 Bangla Bastralaya, 137, Bowbazar St, Calcutta  
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Guntur.
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 L Bhola Ram, Kangra  
 L Kunlal Bhagatram, Fatehabad, Hissar  
 Makhan Singh Labh Singh, Railway Station, Lyallpur  
 Munshi Ram Moolchand P O. Nuh, Dt Gurgaon  
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 Sohanlal Mohanlal Dhingera Main Bazar, Wazirabad

**SIND.**

Dewoomal & Bros, Rustom P O. Shikarpur  
 Kishinchand Amarsingh, Shahi Bazar, Hyderabad  
 Menghraj Shivandas, Lalkachery Lane, Larkana  
 Seth Motumal, Near Davoji Temple, Shikarpur.  
 Valiram Pahumal, Sukkur  
 Wadhoooram, Pabahajrai & Bros, Rustom P O, Shikarpur.

**UNITED PROVINCES**

Abbas Farukh, Lala Bazar Almora  
 Abdul Majid, Lala Bazar, Almora  
 Allimohmed Gani, Meston Road, Cawnpore  
 B Mohendra Nath, Askunda, Bazar, Muttra.  
 B Sita Ram, Ballia Town.  
 Baburam & Co, Old Generalgunj, Cawnpore  
 Badri Das Bithal Das, Bishram Ghat, Muttra  
 Baij Nath Benpershad, Agra.  
 Basedeo Sheekarandass, Agra.

Basedeo Sheekarandass, Generalgunge, Cawnpore  
 Changa Mal Bai Kishan Katia Ahmedganj Farrukhabad  
 Chhattimbhuj Shivji, Generalgunge, Cawnpore  
 Chunnilal Roshan Lal Moti Bazar, Hathras  
 Dukhi Ram Mahadeo Pd, Chunar  
 Faqir Chand Sarju Prasad, Ballia  
 G S Vaishney & Co Near Old Kotowali Bazar Hathras city.  
 Gopi Nath Devi Charan, Tirpolia Chauk, Farrukhabad  
 Gopinath Changamal, Near Kahu Kothi, Cawnpore  
 Govind Das Dwaika Dass, 76, Bulanala, Benares  
 Gulab Chand Mathura Prasad, Azamgarh  
 Hem Chandra Bhattacharya & Bros, Biswanath Gali, Benares  
 Hernam Das Bhogan Das, Dhampur  
 Jawala Prasad Radha Krishna, Kahoo Kothi, Cawnpore  
 Joosab Hussain & Co. Meston Road, Cawnpore.  
 Kanji Shivji & Co, Kamp Bazar, Cawnpore  
 Kedar Nath Gupta, Vill Khohi, P O Chitrakut, Dt. Banda.  
 Khanna Industries, Bibihatia, Benares  
 Kundanlal Mehar Chand, Baia Bazar, Muzaffarnagar.  
 Kunjamul Banwailal, Rawatpura.  
 L Subha Ram, Etah  
 Lakhoo Mal Ram Chander, Najibabad  
 Lala Gopi Nath Agarwala, Generalganj, Cawnpore  
 Lamsdulal Shambhu Nath, Kothaparcha, Farrukhabad  
 Madan Mohan Gobind Prasad, Kot Ghazipur,  
 Madho Ram & Sons Janki Dass Madho Ram Dehra Dun.  
 Madhuban Prasad, Ballia  
 Mangal Prosad & Sons, Hazratganj, Lucknow.  
 Mithan Lal & Son 45. Baia Bazar, Nainital.  
 Mohini Mohan Kanyilall, Biswanath Lane, Benares

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Pussa Lal Changelal, Kothaparcha, Farrukhabad.  
 Radhey Lal Damodar Das, Bishram Ghat, Muttra.  
 Raghuber Dayal Ram Charan, Katra Ahmedganj, Fariukhabad  
 Rajaram Chhanculal, Jalalpur, Fyzabad, (Gamcha)  
 Ram Charan Sat Narain, Chauk, Fatehpur  
 Ram Dass Balmokand, Bazaza Bazar, Meerut  
 Ram Lal & Bros, Mallital, Nainital  
 Ram Swarup Jawaharlal, Katra Ahmedganj, Farrukhabad,

Ramdas Ram Sarup, Nagina.  
 Rameshwarlal Gajanand, Kot, Ghazipur  
 Ramkissen Das Bindeshwari Pd Generalgunge, Cawnpore.  
 Ramkumari Rameshwardas, Kahu-kothi, Cawnpore  
 Sarjoo Saran Ram Bharose, Bazaza, Fyzabad.  
 Sh Abid Hasan, Ballia Town  
 Shyamlal Baikunthnath, Kinari Bazar, Agra  
 Swadeshi Cloth Depot, 27, Amina-bad, Lucknow  
 Zafar & Co, Gorakhpur  
 Zaman & Co, Pandey Hauli, Benares

### COACH BUILDERS.

#### BOMBAY CITY.

Tayaballi Allimahomed Takiwala, 93, Chinchbander Rd, Bombay, (Tanki Repair)

#### BOMBAY PRESIDENCY

Fakirbhai Purshotam, Bechari Rd, Bulshar, Surat

#### CALCUTTA

Allen Berry & Co, Ltd, 24-B, Park St, Calcutta, (Motor Body)  
 Canton Carpentry Works, 14 Tangra Road, Entally, Calcutta  
 Great Indian Motor Works Ltd, 22, Rowland Rd, Calcutta  
 Hing's Carpentry Works, 36, Middle Rd, Entally, Calcutta  
 Leong Motor Coach Works 43 Hazra Road, Calcutta  
 Standard Rickshaw Co, 15, Madan Baijal Lane, Bowbazar, Cal

#### KARACHI

A M Sodawaterwalla Napier Road, Karachi.  
 Abdool Hussain Moosaji & Sons, Gaiden Road, Karachi.

Cheena Umarsi, Bunder Road Karachi.

#### LAHORE

M Ahmad Din, Outside Taxali Gate, Lahore (Hood Sticks)

#### MADRAS CITY

M. Jeewajee & Co, 2-19, Mannady Street, G. T, Madras (Materials)  
 Oakes & Co, Ltd, 202, Mount Rd, Madras  
 Rajagopal Motor Works, General Patten's Rd, Madras  
 Simpson & Co, Ltd, 202 & 203 Mount Rd, Madras

#### UNITED PROVINCES

Empue Furnishing House, Mall Road, Cawnpore  
 Globe Furnishing Co, Mall Road, Cawnpore  
 Pioneer Electric Motor & Coach Factory, Cawnpore.  
 Shiv Prashad & Sons, Mall Road, Cawnpore  
 Sohan Lall & Sons, Hall Road, Cawnpore

### COAL MERCHANTS.

#### BENGAL.

Amu Hossen Sowdagar, Station Road, Chittagong  
 Associated Coal Co, 102-5, Cowles Ghat Rd, Sibpur, Howrah  
 Banwarilal Bhalotia, Tilak Road, Raniganj

L K Mukherjee & Co, Banga-para, Buidwan

P C Bazar & Co, Tilak Road, Raniganj

P Ray & Bros, Main Road, Asansol

Manufacture Pickles & Chutneys at Home. INDIAN PICKLES, CHUTNEYS & MORABBAS explains the process. Industry Book Dept, Cal.

Pandayjee & Company, Chhatapathar, P O Kalipahari, Burdwan.  
R Coalman & Co, Raniganj,  
E I Ry Branch—Jharla

**BIHAR.**

B Asha Shaw, Barh, Patna.  
B Ganga Shahu, Barh, Patna.  
B Misra Sahu, Barh, Jharla  
Banerjee Brothers Baidyanath-  
Deoghar  
Devachand Amulakh Mehta, P O  
Katrasgarh, Manbhumi Dt.  
Diamond Coal Co Jharla.  
Dinesh Ch Pathak, Jharla.  
Durga Shanker & Co, Jharla  
Gheria Panchan & Co, Jharla  
Graphite Coal Co, Ltd, Jharla  
India Coal Supply Syndicate  
Dhanbad, E I Ry Hd Office—  
57, Burtolla Street, Calcutta.  
Khumpi Dossa & Sons, Jharla.  
Lali Ramji Cutchi & Sons Post  
Jharla  
Nishi Kanta Chakravarti, Jharla  
P N Chatterjee Naratala Ban-  
kipur, Patna  
Popat Lal T Shah Jharla  
Radha Binod Sen, Dhanbad,  
Manbhumi  
S C Mukkerjee, P O Box No  
144, Jharla  
South Busra Coal Co. Jharla  
Waliram & Co, Jharla

**BOMBAY CITY.**

Bomanji C Guzdar & Co, Sir  
Vithaldas Chambers, 16 Apollo  
St, Fort, Bombay.  
Chandrana Mohanlal H Girga-  
on Gariyadi, Bombay No 4.  
Chhotalal Jamnadas & Co, 311,  
Sandhuist Road, Bombay.  
Choonilal Manilal Ltd, Yusuf  
Bldg, Churchgate St. Fort,  
Bombay

Eastern Bunkerers Ltd, Scindia  
House, Dougall Road, Ballard  
Estate, Bombay.

Empire Coal Co, Darya  
Building, 375, Hornby Road,  
Opp. Flora Fountain, Fort.  
Bombay

Gandhi & Co, 40, New Tank  
Bunder, Coal Depot, Mazagaon.  
Bombay

Girdharlal & Co, 18, Mangesh  
Shenoi Street, Fort, Bombay

Gordon & Co, Kirti Bldg Forbes  
St, Fort, Bombay

Govindjee Madhoojee & Co, Ltd,  
Sir Vithaldas Chambers, 16,  
Apollo St, Fort, Bombay

Haji Moosa Haji Aboobaker &  
Co, 10, Kolsa Road, Pydhonie,  
Bombay

Kalyanji Mavji & Co, 55, Apollo  
Street, Bombay

Keshavjee Bhimjee, Goods Depot,  
Byculla, Bombay

Madhavlal & Co, Ltd Alice  
Building, Hornby Rd, Bombay

Moraji Mulraj & Co Luxmi Bldg,  
42, Ballard Rd, Bombay

Nanavati Vevania & Co, Scindia  
House, Dougall Rd, Bombay.

Narottam & Pereira Ltd, Scindia  
House, Dougall Road, Ballard  
Estate, Bombay

Natwarlal Shamaldas & Co,  
Noble Chambers, Parsi Bazar  
St, Fort, Bombay

S D Mehta & Co Ltd, Rehman  
Bldgs Churchgate St, Bombay  
Shethia Brothers, Graham Bldgs  
Parsi Bazar St, Bombay.

**BOMBAY PRESIDENCY.**

Chhotalal M Engineer & Co,  
Panjara Pole, Ahmedabad

**R. COALMAN & CO.,**

*Coal Merchants & Colliery Agents,*

**Dealers in**

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BRICK BURNING RUBBLE, DUST Etc.**

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**Gram—"Coalman"**

Mulsibhai Ambalal, Vadenasuderi's Pole, Cambay, Kaira.  
Shububuddin Mohammed, Connaught Market, Poona Camp.

**CALCUTTA.**

Amritlal Ojha & Co, Ltd., 102/A, Clive Street, Calcutta  
B Mukherjee & Co, Block No 3, Commercial Bldgs, Calcutta  
Bengal Coal Co, Ltd., 8, Clive Row, Calcutta  
Bengal Coal Concern, 4, Clive Ghat St, Calcutta.  
Bengal Coal Syndicate, 6, Church Lane, Calcutta  
D Sandell & Co. 1-1, Swinhoe Lane, Calcutta  
Gillanders Arbuthnot & Co, 8, Clive St, Calcutta  
India Coal Supply Syndicate, 57, Buntolla St, Cal & Dhanbad  
J C Dutt & Co, 11, Clive Street, Calcutta  
Jardine Skinner & Co, 4, Clive Row, Calcutta  
Kolood & Co, B N Ry Yard, Garden Reach, Calcutta  
Ram Narain Satyapal, 22, Caning St, Calcutta  
S D Mehta & Co, Ltd, 50, Ezra St, Calcutta  
S K Ghose, 25, Dharamtolla St, Calcutta  
Sarbamangala Coal Co. 26-A, Jatin Dass Rd., Calcutta  
Tataak Nath Coal Agency, Station Rd, Kalighat Ry Siding, Cal  
Villiers Ltd, F3, Clive Bldgs, Clive St Calcutta  
West Bengal Coal Co, 113, Chittaranjan Avenue (South), Cal

**CENTRAL PROVINCES.**

H S Zahnuddin, Chitnavisganj, Chhindwara  
P R Oak Akola, Berar  
Sanoo Prasad Sharma, Hanumangunj, Katni, Jabulpore

**DELHI.**

Aman Dass Gupta & Bios, Connaught Place, New Delhi  
Bharat Coal Company, Ajmere Gate, Delhi  
Coronation Coal & Fuel Co, 1, Gole Market, New Delhi.

Doaba Coal Co., Hastings Road, Delhi  
Endley Bios, Chandni Chawk, Delhi

Hindustan Coal Co, 6-H, Connaught Circus, Delhi.

J. R Dinkara & Son, Dinkara Bldg, Nai Bazar, Delhi

New Punjab Coal Co, West Ballan Rd, Connaught Circus, Delhi

Ralsina & Bengal Coal Co, Aurangzeb Lane, Delhi

Sundar Lal Jain, Lahori Gate, Delhi

**INDIAN STATES.**

Adamji Jiwanji, Near Imperial Bank, Rajkot C S, Kathiawar  
Dharamshi Som Chand, Nani Bazar, Wadhwan, Kathiawar  
Shethia Brothers (Baroda) Ltd, Alkapuri, Baroda.  
T R Parakh, Parakh House, 151, Sappers Lines, Secunderabad, Deccan

**KARACHI.**

Cowasjee & Sons, Keamari, Karachi

**MADRAS CITY.**

B. Venugopal Naidu & Co., 24, Trevelyan Basin St, Madras  
Bengal Coal Trading Co, Sydenhams Rd, Madras  
Binnay & Co, Ltd, Armenian St, Madras  
P Worah Bhagwanlal, 420-421, Mint St, Sowcarpet, Madras  
S. D Mehta & Co, Ltd, 40, Mint St, Madras.

**PUNJAB.**

Dharam Paul Varma & Co, Ambala Cantt  
Jhama Das & Sons, Chowk Bazar, Multan City  
Punjab Coal Co, Cant Road, Simla  
Simla Coal Company, P. B No 23, Railway Goods Stn, Simla

**UNITED PROVINCES.**

Jamuna Coal Trading Co, Fairukhabad, U P  
Madho Pd Tandon, Khatamba, Fairukhabad.

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S Manzooi Ali, Haibans Mohal,  
Cawnpore  
Sikri Bros, La Touche Road,  
Cawnpore  
Sunder Lal Kailash Babu, Sadh-  
wara, Farrukhabad

Sunaj Pd Tandon, Khatramba,  
Farrukhabad

Union Coal Co, 177, Bazaza Park,  
Lucknow

### COAL MINES.

Aldih Coal Co, Ltd, Dishegarh,  
Dt Burdwan  
Amalgamated Coal Fields, Ltd,  
Parasia, Chhindwara  
Apcar Colliery Ltd, Chaiampur,  
Asansol  
Bagonia Colliery, Barakar, Burd-  
wan  
Bahhari Colliery Co, Ltd, Bah-  
hari Colliery, Kusunda P O,  
Manbhum  
Bansaja Coal Co, Ltd, Toposi,  
Burdwan  
Baraee Coke Co, Ltd, Kusunda,  
Manbhum  
Bazar & Co's Kusum Kanally  
Colliery, Manbhum  
Bengal Bhatdee Coal Co, Ltd,  
Mohuda, Manbhum  
Bengal Coal Co, Ltd, Sanetonia,  
Seetalpoie, Sodepui, Deep So-  
depui, Chota Dhemu, Foidih,  
Paibelia, Giridih, Palamaw,  
Jharua, Hutar  
Bengal Giridih Coal Co, Ltd,  
Giridih, E I Rly  
Bengal Nagpur Coal Co, Ltd,  
Bhuggutdih Colliery, Jharua  
Bhagirathi Ghusick Coal Concern,  
Kalipahai, Burdwan  
Bhalgoia Coal Co, Ltd, Jharua  
Bhulanbaree Coal Co, Bhulan-  
baree, Pathardihi, Manbhum  
Birbhum Colliery Co, Ltd, Lab-  
pur, Birbhum  
Bokaio and Ramgiri Ltd, Bokaio,  
Hazaribagh  
Boreea Coal Co, Ltd, Salanpoie,  
Via Sitarampoie Burdwan  
Budoochuck Coal Mining Co,  
Ltd, Suja Manbhum  
Burra Dhemu Coal Co, Ltd, Sita-  
rampore, Burdwan  
Buriakai Coal Co, Ltd, Agts  
Bird & Co, Chartered Bank  
Bldgs, Calcutta  
Central Jambad Coal Co, Ltd, P-51,  
Raja Basanta Roy Road, Cal

Central Kurkend Coal Co, Ltd,  
Kusunda, Manbhum  
Churulia Coal Co, Ltd, Panuria,  
Burdwan  
Cosoonda & Naydee Collieries Co,  
P O Kusunda, (E I Ry)  
Dandot Gambrola & Aia Colliery,  
Dandot, Khewra, Jhelum  
Deoli Coal Co, Ltd, Dishegarh,  
Chowrassi, Manbhum  
Dharmaband Colliery, Katias-  
garh, E I Ry  
Dhemu Main Collieries, Ltd,  
Dishegarh, Burdwan  
Dutt Nephew Coal Co's Brinda-  
banpui Colliery, Mugma, Man-  
bhum  
East Baraboni Coal Co, Ltd, 4,  
Mandeville Gardens, Calcutta  
East Indian Coal Co, Ltd, Ku-  
sunda, Loyabad  
East Nandi Colliery, Toposi,  
Burdwan  
Ekia Khas Colliery, Bansjoia,  
Manbhum  
Equitable Coal Co, Ltd, Dishe-  
garh, Burdwan  
Ghela Panchan & Co, Lower  
Jeyrampore Colliery, P O  
Jharua  
Ghusick & Muslia Collieries, Ltd,  
Kalipahai, Burdwan  
Gopalchuk Coal Co, Ltd,  
Kusunda, Manbhum  
Hirdagarh Collieries, Ltd, 101,  
Queen's Road, Church Gate Re-  
clamation, Bombay  
Huniladih Coal Co, Ltd, Dishe-  
garh, Burdwan  
Hyderabad (Deccan) Co, Ltd,  
Hyderabad, Deccan  
Iluntodih Coal Co, Ltd, Mohuda,  
Manbhum  
Industry Coal Co, Ltd, Jharua  
Jagannath Coal Co, Ukhara,  
Burdwan  
Jote Dhemu Colliery Co, P O  
Ukhara, Burdwan, Mg Agents

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Y B 51



Kajora Coal Co., Ltd., Labpur, Birbhum	North Adja Coal Co., Ltd., 100, Clive St., Calcutta
Kalpahari Coal Co., Ltd., Damra Colliery, Kalpahari, Burdwan	North Bansjora Coal Concern, Bansjora
Kanga & Co., Ltd., P. O. Jharia (Manbhum).	North Barakai Coal Co., Ltd., Off —100, Clive St., Calcutta
Katras Jheriah Coal Co., Ltd., Charanpur, Jamuria	North West Coal Co., Ltd., Jharia, Manbhum
Khas Basra Coal Concern Ltd., Jharia	Ondal Coal Co., Ltd., Chora, Burdwan
Khas Jharia Colliery Co., Ltd., Jharia, Manbhum	Pandeberra Colliery Co., Jharia
Khas Jinagora Colliery, Jharia	Patmohna Colliery, Sitarampore, Burdwan
Khas Kajora Colliery, Kajoramgram, E I Ry	Pench Valley Coal Co., Ltd., Parasasia, C P
Khas Pandedih Colliery, Sijua, Loyabad	Punjab Coal Co., Ltd., Chittidand, N W Ry
Khoodia Coal Co., Khoodia Colliery, Mugma, Manbhum	Raneegunge Coal Association, Ltd., Kusunda, Manbhum
Lakuaka Coal Co., Ltd., Lakuaka, Katrasgarh	Real Raniganj Coal Co., Ltd., Raniganj, Burdwan
Lodna Colliery Co., Lodna	Rewa Coalfields, Ltd., Umaria Colliery, Umaria, B N Ry
Lower Jayrampur Colliery, (Ghe-la Panchaon & Co.), Jharia	Samla Collieries Ltd., Pandaveswai, Burdwan
Makeiwal Colliery, Trag, Mianwali	Seebpore Coal Co., Ltd., Charanpur, Burdwan
Marine Coal Co., Ltd., Kasunda, Manbhum	Sendra Bansjora Colliery Syndicate, Bansjora, Manbhum
Minto Coal Co., Ltd., Nadi, Ukhara, Dist Burdwan	Sendra Coal Co., Ltd., Bansjora, Manbhum
Mundulpoor Coal Co., Ltd., Dish-eigarh, Burdwan	Shampore Coal Co., Ltd., Kalobathan, Manbhum
National Cement Mines & Industries Ltd., 8, Southern Avenue, Calcutta	Singareni Collieries Co., Ltd., Kothagundiam Collieries, Hyderabad, Deccan
National Coal Co., Golpur, Jhelum	Standard Coal Co., Ltd., Jharia, Manbhum
Nazma Coal Co., Ltd., Kongon Naga Hills	Tribut Coal Co., Jharia
New Basudeopur Coal Co., Ltd., Kusunda, Manbhum	Union Coal Co., Ltd., Angarpathra Colliery, Katrasgarh, Manbhum
New Beebhoom Coal Co., Ltd., Burdwan	Upper Jeenagora Colliery, Jharia
New Gobindapur Coal Co., Ltd., 33, Canning St., Calcutta	West Jamuria Coal Co., Ltd., Jamuria, E I Ry
New Manbhoom Coal Co., Ltd., Gashtan Colliery, Sijua	Western Coal Co., Ltd., Badjna Colliery, Nushachati, Mugma, Manbhum
Newton Chukhi Collieries Ltd., P O Parasasia, Chhindwara Dt	

**COALTAR DEALERS.**

Behal Chemical Traders, 149, Andul Road, Howrah

Esoofali Mahomedali Lokhandwala, 17, C P Tank Rd, Bombay.

Prepare ghee, butter, casein, condensed milk, etc. at home. **MILK & MILK PRODUCTS** explains the way. Re 1/12. Industry Book Dept., Calcutta.

Gulamally Lutfally Khambati,  
5, Ardeshir Dadi St, Golpitha,  
Bombay

H Mumtaz & Co, 1, Colootola St,  
Factory —11, Swinhoe Lane,  
Ballvunge, Calcutta

Haridas Dwarkadas & Co, Car-  
nac Bunder, Bombay 9

Indian Mercantile Co, 25, Clive  
St, Calcutta

Jaferjee Vahjee & Co, Mirchi  
Gali, Lalgudi, Bombay

### COCONUT & COPRA DEALERS.

A S A R Azeezullaha Sahib &  
Co, Gudiyattam, Madras Presy  
Alvala Guraviah, Tenali, Guntur  
B Sangappa & Sons, Anantapur  
Benode Behary Ghose, Nawapara,  
Jessoie

Chitralla Baliah Setty, Adoni,  
Bellary Dt

Gangalu Yerrappa & Venkata-  
Narayanappa & Co, Timmana  
cherla

Govindji Padamshi, 354, Katha  
Bazar, Mandvi, Bombay 9 Br  
Alleppey, Cochin, Calicut, Bada  
gara

Hajee Ismail & Bros, Khulna  
Kareem Ahmed Sait, Bangalore  
Road, Bellary (Also Con)

Kota Punniiah & A Rungiah,  
Guntur

Kuchi Rajeswara Sastiy, Mun-  
gonda, Ambajipeta, S I

Lakshmi Kanta Dutt, Damodar,  
Khulna

Madhury Brother, Innespet, Ra-  
jahmundry

Naraindas Mathuradas Nariel-  
wala, Vadgadi, Bombay.

O Chinnabamppu, Arsikere, Dhar-  
war.

Primjee Kethsee & Co, Near Po-  
lice Lane, Cochin

S L Sujain Setru, Arsikere

S S Govindasami Chetty & Co,  
Valangaman, Kumbakonam,  
S I Ry

Sachuty Veeranna, Adoni, Bel-  
lary Dt

Sanjevappa & Sons, Adoni

Shah Govindji Padamshi, 350-54,  
Katha Bazar, Mandvi

Sontha Sinappa & Sons, Bellary

### COCONUT OIL DEALERS.

Adam Hajee Peermohamed Es-  
sack, 1, Amratala Lane, Cal

Benimadhab Tah & Sons, 38,  
Maharshi Debendra Road, Cal

Cochin Chemicals, Ayalur, Cochin

Diwan Haji Pirmohamed Musa,  
4 Amratolla St, Calcutta

G V Kamath, Cochin

Haji Habib Haji Peei Mohamed,  
25, Amratala St, Calcutta

Hazel & Cedar, 4, Kaloo Ghosh  
Lane, Calcutta

Hossein Kasam Dada, 25, Amra-  
tala St, Calcutta.

Kalpaka Oil Mills, Ltd, Pallurutti,  
Edacochi P O, Cochin

### COFFEE WORKS.

Ananda Coffee Tablet Works,  
Chunnambukara St, Vellore, N  
Arcot Dt

Anoori Estates Ltd, Joladalu,  
Kadur

Anupma Coffee Works Co, Ltd,  
Coimbatore

Arabidacool Estate, Chikmagalur  
P O, Kadur, Mysore

B H Vasudevapai & Sons Chick-  
magalur, Mysore State

Bavly & Block, Ltd, Donnington,  
Kotagiri, Nilgiris (Also Tea),

Belagode Estate, Hassan P O,  
Mysore.

Bhadra Valley Estates Ltd, Kala-  
sa, Kadur, Mysore

Bharat Coffee Co, Koppa-kadur,  
Mysore State

Bharathmatha Coffee Works  
(Regd), Chikmagalur, Mysore  
State.

Bircode Estate Ltd, Belur-Hassan  
P O, Hassan, Mysore

Bolloor Coffee Works, Mangalore  
S Kanara

Prenare ghee, butter, casein, condensed milk, etc at home. MILK & MILK  
PRODUCTS explains the way. Re 1/12 Industry Book Dept, Calcutta.

Chandrapore Estate, Mudigere P O, Kadur, Mysore  
 Chikanhally Estate, Belur-Hassan P O, Hassan, Mysore  
 Chonadum Coffee Curing Works, Tellicherry, Malabar  
 Cochin Malabar Estates Ltd, Nilambur.  
 Coffee Curing Works, Mangalore  
 Coimbatore Coffee Curing Works, Tellicherry, Malabar.  
 Consolidated Coffee Estates Ltd, Pollibetta, Coorg  
 Coorg Coffee Estates Ltd, Som-Waipet  
 Dayananda Coffee Works Narasimharajapura, Mysore State  
 Elk Hill Coffee Estates Ltd, Sidappu, Coorg  
 Gni Coffee Works Chikmagalur, Mysore  
 Goorghully Estate, Saklaspu P O, Hassan, Mysore  
 Gudalur (Nilgiri) Tea & Coffee Estates Ltd, New Hope, Nilgiri-Wynaad  
 Hanuman Coffee Stores Main Rd, Tadepalligudem

Hegoodloo Estate, Mudigere P O, Kadur, Mysore.  
 Holalu Estate Ltd, Belur-Hassan P O, Hassan, Mysore  
 Hooli Hundloo Estate, Mudigere P O, Kadur, Mysore  
 Hunsur Works, Hunsur, Mysore.  
 Huntsey Estate, Somwaipett P O, North Coorg, S I  
 Jeppo Coffee Curing Works, Jeppo, S Kanara.  
 K L Muttaswamy Shetty & Sons, Chickmagalur, Kadur.  
 Karadibetta Estates, K Hoskote P O, Hassan, Mysore  
 Kathlekhan Estates, Ltd, Kathlekhan and Dodkhan Estates, Tadasa P O, Kadur, Mysore  
 Kelgannie Estate, Mudigere P O, Kadur, Mysore  
 Kerala Plantations Ltd, Calicut  
 Kirala Calicut Estates Ltd, Mekkams, Kunnamangalam  
 Kitherhull Estate, Somwaipett P O, North Coorg, S I  
 Koorghully Coffee Estates Ltd, Sunkoppa, Coorg

## Bharathamatha Coffee Works, (Regd )



**CHIKMAGALUR,**  
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magalur, Kadur, Mysore State  
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Mahaveeria Coffee Works, Hassan,  
Mysore  
Malabar Coffee Company, Allep-  
pey  
Malayalam Plantations Ltd, Qui-  
lon, Travancore  
Mamally Coffee Works, Feroke,  
Malabar, Calicut  
Moodsoosie Estate, Mudigele P O,  
Kadur, Mysore  
Moracoon Coffee Curing Works,  
Tellicherry  
Mysore Coffee Works, Chikmagala-  
lur, Mysore  
N Kunhaly, Mangalore, S K  
National Coffee Works, Chikma-  
galur, Mysore  
Nilgiri Plantations Co, Ltd,  
Coonoor, Nilgiris  
P F Saldhana & Sons, High-  
land Coffee Works, Kankanady  
P O, Mangalore  
Peirce, Leshe & Co Ltd, Estate  
Department, Mangalore

Polson Ltd, Lloyd Bldg, Dougall  
Rd, Ballard Estate, Fort, Bom-  
bay  
Porter Hall & Co, Santaveri,  
Kadur, Mysore  
Pulhcoon Coffee Works, Telli-  
cheiry  
Radha Krishna Coffee Works,  
Hassan, Mysore  
S Subbanna Shetty & Sons,  
Chikmagalur, Kadur, Mysore  
Salawara Estate, Saklaspu P O,  
Hassan, Mysore  
Shevaroy Coffee Growers Co,  
Yerchand, Shevaroy  
Shree Krishna Coffee Works,  
Chikmagalur, Mysore  
Soondhully & Luckoonda Estates,  
Belagodu P O, Hassan, Mysore  
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Home, Saraswati Niwas, Tha-  
kudwar, Bombay 2 Chikmagala-  
lur, Mysore  
Universal Coffee Works Chik-  
magalur, Mysore  
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Kurla Coir Manufacturing Co.  
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Madura Co, Ltd, Alleppey, Tra-  
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la, 390, Katha Bazar, Bombay 9.  
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Travancore

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H D Khan & Co, 101-B, Chitta-  
ranjan Avenue Calcutta

#### DELHI.

Shri Bhagwan Sharma & Bros.  
Burn Bastion Rd, Delhi

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 C E Menon, Pappanangadi, S Malabar  
 M. G Ramchandra Iyer, East Masi St, Madura  
 Volkart Bros, Hydraulic Coir Press, Calicut, Malabar

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Mohanlal Jwalaprasad & Sons, Laxmiganj, Kasganj, U P

### COLD STORAGE COMPANIES.

Calcutta Cold Storage Ltd, D1, Hide Road, Kidderpore, Cal  
 Amar Building, Sir Phirozshah Mehta Rd, Fort, Bombay

Siddick Road, Opp Crawford Market, Bombay

Chloride Electrical Storage Co, (India), Ltd, Feltham House, Graham Road, Ballard Estate, Bombay

Central Ice & Cold Storage, Saboo

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 Ballygunge Eng Works, 33-1-1, Kankulia Road, Ballygunge, Cal  
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 Calcutta Collapsible Gate Co, Ltd, 11-C, Lower Chitpur Rd, Calcutta  
 E S Hajeer, 12, Sembudoss St, G T Madras  
 G C Bysack, 14-3, Sovaiam Bysack St, Calcutta Factory  
 B T Row, Panihati  
 G C Ghose's Collapsible Gates & Iron Works, 9, New Bowbazar Lane, Calcutta  
 Gopal Chunder Dass & Co Ltd, 24, Raja Woodmunt St, Cal

Indo Engineering Co, 77-1, Clive Street, Cal Factory 72, Manick-tola Main Rd, Calcutta  
 Nan Iron Works, 16-1A, Beadon St, Calcutta  
 P. Mavji & Co, 6th Kumbhainwada, Bombay 4  
 Paris Collapsible Gate Co, 2 & 3, Rifle Rd, Ballyganj, Cal  
 S A Mochhala & Co, 14, Clive St, Calcutta  
 S P De & Sons, 84A, Clive St, Calcutta  
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 Shampi Kala & Bros, 167, Kumbharwada 3rd Lane, Bombay 4  
 Sharma Engineering Works, Kadamkuan Rd, Patna

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 Metal Box Co of India Ltd, B2, Hide Rd, Kidderpore, Cal  
 S N Mukherjee, 7A, Shampukur St, Calcutta.

Sikri & Co Ltd, 55, Canning St, Calcutta.  
 T Sharman & Sons, Tirlok Bhawan, Kashmere Gate, Delhi  
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Bairnath Jugalkishore, 263, Aimenian St, Calcutta.	Manji Gowamal, Jharla, Manbhumi
Balmer Lawrie & Co, Ltd, 103, Clive St, Calcutta	N H Ojha & Co, Ltd, 39A, Dr Rajendra Rd, Calcutta
Bird & Co, Chartered Bank Bldgs, Clive St, Calcutta	Octavius Steel & Co, 14, Old Court House St, Calcutta
C P Syndicate Ltd, Residency Rd, Nagpur	P Jagmal & Co, Jharla
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Gokulchand Jhunjhunwala, Raniganj E I Ry	Ramji Punushottam, P O Jharla, Manbhumi Dt
H V Low & Co, Ltd, 3, Synagogue St, Calcutta	S N Ghosh & Co, Barakar, Burdwan
India Coal Supply Syndicate, 57, Burtolla Street, Calcutta and Dhanbad	Shaw Wallace & Co, 4, Bankshall St, Calcutta
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Deshbandhu Art Cottage, 356-3,  
Upper Chitpuu Rd., Calcutta

Flash, 82, Harrison Rd., Cal

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Industry Press, 22, R G Kai Rd.,  
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K K Dutta, B.A., 7, Cornwallis  
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N Chatterjee, 82, Harrison Road,  
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Quality Sign Bureau, 139, Dha-  
ramtolla St., Calcutta

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mah Chatterjee St., Calcutta

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chia, Bhagalpur

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 Shivanarayan Rampal, Guledgudd, Dt Bijapur  
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 Bharat Finance Co, Ltd, 29, Banstolla St, Calcutta  
 C Mitter & Co, 28, Lower Chitpore Rd, P O Box 2056 Cal  
 Dawjee Dadabhoy & Co, 67, Canning Street, P O Box No 75, Calcutta  
 G K Mukerji & Co 22 & 22-1, Durmahatta St, Calcutta  
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**Mafatlal Gagalbhai**, 14, Portu-  
guese Church St., Calcutta  
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China Bazar St., Calcutta Br  
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**Suramull Murlidhar**, 28, Amra-  
tolla Street, Calcutta  
**Surendra Nath Ghose & Co.**, D-12,  
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**Benarasi Dass Naiandass**, Kacha-  
Bagh, Delhi

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Sarak, Delhi  
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lore City  
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Mysore  
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**Harmukhan Lachminarain M T**  
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St Bhavnagar, Kathiawar  
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lon, Travancore

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K Ramalingam Pillai, South Raja  
Street, Tuticorin

K S L Chetty, Agriahaiam St,  
Erode

Kandula Ramamah, Ellore, W  
Godavary

Kannan & Co, Tuticorin, S I

**THE RETAIL TRADE**—an exposition of Methods that build up Retail  
Trade. Price Re. 1/4. Industry Book Dept, Shambazar, Calcutta.

Karwar & Co, Colihatta Bazar,  
Mangalore, S Kanara  
Manufacturers' Agency, 14th  
Beat, Trichinopoly  
National Frame Works, Tripunithura  
P Abdul Khader Sahib & Co,  
Bezwada, Kistna  
P Krishnamoorthy Iyer, Nega-  
patam  
P Narayan Vajappa Bhandary &  
Sons, Mangalore  
P Ramachandria Reddi & Co,  
Palamaner P O, Chittoor Dt  
P Swamy Naidu, & Bros, Nar-  
asarowpet, Dist Guntur  
R Krishnamachari, Worur, P O,  
Trichinopoly  
S B M Hussain & Co, 2, Devan-  
gapet, Coimbatore.  
S Subbaroya Gupta, V M Lane,  
Dindigul, Madura Dt  
Sakti Sadhana, Kaur, S I Ry  
Sri Nataraja Advertising Agency,  
86, North Car St, Chidambaram  
Sri Ramkrishna Trading Co, Na-  
rasaraopet, Guntur Dt  
V S Ramalingam & Bros, Veman-  
dampalayam, Kavilipalayam  
P O, (Via) Sathyamangalam,  
Coimbatore Dt  
V Sreenivasan, Mamandur, Dusi  
Post, N Arcot Dt  
Variety Traders, Post Chovva, N  
Malabar  
Vijayam & Co, Raja Street, Coim-  
batore  
Y S Murty, Amalapuram, E Go-  
davary Dt.

#### N W. F. PROVINCE

Amirchand Harichand Haipur,  
Havara City  
**Ch. Nathu Ram Mansa Ram  
& Sons**, (Bankers & Contrac-  
tors), Martin Lines, Abbottabad  
Dukhbhajan Ram & Sons, Dera  
Ismail Khan  
Inter-National Trading Emporium,  
Sandeman Road, Quetta  
Seth Pyara Lal Bhagwan Dass,  
Fort Sandeman  
Seth Sohna Lal Harbanslal, Ma-  
hikpura Road, Nanda, Abbota-  
bad

#### ORISSA.

Bachu Lal & Co, Motiganj, Bala-  
sore  
Chaitan Charan Das, Naya Bazar,  
Bhadrak  
Cuttack V P Stoies, Babu Bazar,  
Cuttack  
Hiralal Badridas, Rekabi Bazar,  
Kendrapara, Cuttack  
Jagusahu & Sadhu Beheia, Gul-  
nagai, Kendrapara, Cuttack  
Muralidhar Gopikishen, Adar  
Bazar, Balasore  
Orissa Trading Agency, Cuttack  
Ram Prasad Sarma, Gumuri Mar-  
ket, Baripada

#### PUNJAB

Amir Chand Ram Chand, Sar-  
godha  
B S Kundan Singh & Co, Reu  
Road, Jullundur City  
Behari Lal Wadhwa & Sons, In-  
side Haram Gate, Multan City  
Bhagwan Dass Andani, Inside  
Delhi Gate, Multan City  
Dattu Mall Gobind Ram & Sons,  
Gobindram Street, Gobindram  
Bldg, Sialkot City  
Diwan Chand Prem Nath, War-  
burton, Sheikhpura  
Durga Peishad & Sons, Durga-  
charan Road, Ambala Cantt  
G R. Harisons, Amritsar Br —  
Lahore  
G S Kathpala Bios, 451, Block  
G, Dera Ghazi Khan, Pb  
H R Bijlal & Co, Bazar Kathi-  
an, Amritsar  
K D Khanda & Co, Kasui, Pun-  
jab  
Kalsri Dass Jain, Said Nagaiyan,  
Gujranwala  
Kashi Ram Puran Chand, Sialkot  
L Chajju Mal Dina Nath, Old  
Cloth Market, Amritsar  
Lala Lachmi Sahai Bhatia, Law-  
rence Road, Amritsar  
Laxmichand Talakchand Mehta,  
Pathar Sadak, Palanpu  
Loko Ram Jawala Dass, Sar-  
godha  
M A Amar & Co Dhab & Gali  
Khatekan, Amritsar Br —  
Lahore

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 Makhan Mall Amrit Chand, Saigodha  
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 Murli Dhai Ram Narain, Kallu Kot, (Mianwali)  
 Nanda Commercial Syndicate, Bazzai Kathian, Amritsar. Br — Lahore & Sialkot  
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 New Commercial Agency, Gah Nihal Singh, Amritsar  
 Parkash & Co, Lawrence Road, Amritsar  
 R K Bhatia & Co, Lawrence Rd, Amritsar  
 R R Chugh & Sons, Toba Tek Singh, Punjab  
 S Amar Singh, Dharamsala, Kangra, Punjab  
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 Seth Tulsiram Kidarnath, Muridke Punjab  
 Sethi Brothers, Office Hina Mandi, Ferozepore City, Punjab  
 Shangla Brothers & Co, 3580, K B Ambala Cantt  
 Tulsiram Kidarnath Aggarwal, Gupjanwala (Rice & Grain)  
 Yojinder Paul Mohindru & Co, Mohindruan Street, Jullunder City
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 Gargiyea & Son, Gargiyea Niwas, Beawar, Rajputana
- SIND.**  
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 D S Gur & Co, Shikarpur, Sind  
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 Kailash Company, Bahau's Padhai Ladna Lodge, Larkana, Sind  
 Kailash Trading Agency, Sut Bazzai Shikarpur, Sind
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 Anand Rai Basdeo Lal, Belanganj, Agra  
 Arjun Singh Dudhi Singh, Deoria, Gorakhpur  
 Aora Brothers, Bombay Bazar, Meerut  
 Bud & Co, Civil Lines, Cawnpore  
 Bishun Dayal Vishwa Nath, Bazar Jhumma, Farrukhabad  
 Budh Sen Madho Prasad, Naya-ganj, Hathras  
 Chandra Bhushan Singh & Co, Unao, U P  
 Chandra Gopal Misra, Sahebganj, Fyzabad.  
 D N Bhargava & Co, Wellesley Ganj, Mirzapur  
 Gurmukhi Basdeoass, Khurja  
 Haji Mahboob Buksh Ehsan Elahi, Meston Rd, Cawnpore  
 Jagannath Singh Balaram Singh, Ahraura, Mirzapur  
 Kashi Prasad & Co, Chawk, Benares City (Cloth, Match)  
 Laul & Co, P O Box 74, Cawnpore  
 Madan Lal Swaiup Narain, Sadhwaia St, Farrukhabad  
 Maneklal Harilal Parikh, Naya-ganj, Cawnpore  
 Mewa Ram Sahdeo Prasad, Mau-nath Bhanjan.  
 Murarilal Banwarilal, Aligarh  
 Naraindas Pushottam Das, Moti Bazar, Hathras  
 Narayan Prasad Suraj Bhan, Belanganj, Agra  
 Pandya's Provision Emporium, Ganesh Ganj, Lucknow  
 Prasidh Narain Anand, 93, Chowk Gangadas, Allahabad  
 Ramprosad Baijnath, Halauganj, Muttra  
 S Bagchi, Marris Market, Kaiserbagh, Lucknow, U P.  
 S R Mehrotra & Co., Hardwar  
 Sarnimal Dhoomsingh Nagalia, Dehra Dun, U P  
 Shib Pada Bose, 11, Sarojini Debi Lane, Lucknow  
 Tandon & Co, Sondhitola, Chowk, Lucknow  
 Trading Corporation Godhowlia South, Benares  
 W H Brady & Co, Mall Road, Cawnpore  
 Yadram Gupta & Co, 14-30, Karla St, Aligarh (Matches, Glass)

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Jehangir J M Poonmajee, G.P.O.  
Box No 20, Bombay

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Kabutarikhana, Mint Road, Post  
No 1, Bombay

Munchery Manekji Poonjaji &  
Co, 51-61, First Marine St,  
Dhobitalao, Bombay

**CALCUTTA.**

Bengal Canning & Condiment  
Works, Ltd, 3, Gurus Das  
Garden Lane, Calcutta

C H Das, 33, Wellesley St, Cal  
Daw Sen & Co, 26, South Road,  
Entally, Calcutta

Farmer's Preserve Works, 25,  
Robert St, Calcutta

Ideal Fruit Preserving Co., 67,  
Badridas Temple St, Calcutta  
(Giam "Preserved," Calcutta  
Telephone 4093 B B)

M Bhattacharyya & Co (Labora-  
tory), 44-4, Canal East Rd, Cal

Munshidabad Dairy, 84, Cornwal-  
lis St, Calcutta

Saroj Chemical Works, 99-3, Can-  
ning St, Calcutta

Sieekissen Dutt & Co, 32-2, Mid-  
dle Road, Entally Calcutta

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R R Daroowalla Sons, Sheogaon,  
Berar, Buldana, Berar

**MADRAS CITY.**

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Mohideen Saib Street, Nara-  
singapuram, Madras

G Sirur Agency, 144, Broadway,  
G. T, Madras

P Venkatachalam, 1 & 2, Po-  
pham's Broadway, Madras

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ball, Mangalore, (Pickles)

Sebastian David, P O Vadakan-  
gulam, Tinnevely (Also  
Snuff)

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K C Mehta & Co, Nasrabad,  
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Chittagong

Brojo Nath Mistanna Bhandar,  
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rah

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Tippa Dt (Lozenges)

Lobo's, Mackenzie Road, Darjee-  
ling

Madhusudan Das, Natori, Rajsha-  
hi, (Sweetmeat)

Manasi Confectionery, 23, Tanti  
bazar, Dacca

Rash Behari De, Chotobazar,  
Midnapur (Sweetmeat)

Swiss Confectionery, Commercial  
Row, Darjeeling.

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A Vianelli & Co, Chowpatty Sea-Face, Bombay.  
 Acme Industrial Works, Victoria Phone Building, Mahim, Bombay No 16  
 Agents Confectionery Works, Velji Lakhamseywadi, Mazagaon, 10, Bombay  
 Amichand Govanji, 300, Shaikh Memon St, Bombay  
 B Marwan & Co, Opp Grant Rd, Station, Bombay  
 B N Biscuit & Confectionery Works, C Hathibag, off Love Lane, Mazagaon, Bombay 10  
 Bullion Sweet Mart & Bullion Dairy Farm, Jackeria Bldg, Masjid Bunder Rd, Bombay  
 Coronation Wafer Co, Victoria Bldg, Agiary Lane, Balaiam St Bombay  
 D Writer & Co, Bhawan Sanker Road, Dadar Bombay 14  
 Dave Sweet Mart, Grant Road, Bombay  
 Dayaam Damodai Mithaiwala, Sethna Chawl, Cheera Bazar, Bombay  
 Esufalli Habatbhoy & Co, Muskat House, Near Bhaji Pala Lane, Mahomedally Road, Bombay.  
 F Coinaglia & Co, Esplanade Road, Fort, Bombay.  
 Gourdon & Co, Church Gate Reclamation, Church Gate St, Fort, Bombay  
 Govindashram Mithaiwala, Jumma Masjid, Bombay 2  
 Gulabdas Narsidas Barfiwala 74-76, Bhuleshwar, Bombay  
 H Raj & Co, (Peerbhoy Bldg, No 2) 93, Princess St, Bombay 2  
 Hualal Naandas, Dubash Bldg, Charni Road, Jnc Grant Road, Bombay  
 James Connell Ltd, Prince Dock, Bombay  
 Jawahare Hind Confectionery Mithabhai Wadi, Hathi Baug, Mazagaon, Bombay.  
 Mangaldas & Co, Masjid Bunder Rd, Gaya Bldgs, Bombay 3,

Paramount Confectionery Works, 81, Memonwada Rd, Bombay  
 Parle Products Co., Vile Parle, Bombay  
 Pearce & Co, Opp Imperial Bank, Apollo St., Bombay  
 Robin Confectionery Mfg Co, 9, China Bunder, Bombay

### BOMBAY PRESIDENCY.

C Shantilal & Company, 744-7, Gandhi Road, Opp Pada Pole, Ahmedabad  
 Swan Chocolate Works, Bilimora, Surat

### CALCUTTA.

A Firpo Ltd, 18-2, Chowringhee Road, Calcutta  
 Bandhab Mistanna Bhandar, 118, Amherst St, Calcutta  
 Bengal Confectionery Works, 99-3, Canning St, Calcutta  
 Bhim Chandia Nag, 6, 7, Wellington St, Cal (Indian Sweets), Bombay Royal Sweetmeat Saloon, 54, Bentinck St, Calcutta  
 Brojadulal Lozenge Works, 26, Grey St, Calcutta  
 Deshbandhu Mistanna Bhandar, 227, Harrison Rd, Calcutta  
 Dwarkanath Ghosh & Sons, Ltd, 140-1, Cornwallis Street, Cal  
 Empire Confectionery Co, 157-A, Dharmatala St, Calcutta,  
 G S Emporium Ltd, 47-A, Chittaranjan Avenue (South), Cal  
 Gupta Brothers' Confectionery, 220, Harrison Rd, Calcutta  
 Happy Boy Ice Cream, 87, Lower Circular Rd, Calcutta  
 K. C Das, Office & Works —3, Ramkrishna Lane, Calcutta  
 Br —11, Esplanade East & 84, Upper Chitpore Rd, Calcutta  
 Reliable Confectionery, 31-22, Lower Chitpur Road, Calcutta.  
 Santosh Biscuit Co, 8, Sukea St, Calcutta. Factory —121 & 177, Manicktola Main Rd., Calcutta  
 Swar Bakery, 79-3-4, Cornwallis St, Calcutta Factory —Halshibagan.

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Akola Products Mfg Co, Akola  
 Himatlal Mohanlal, Victoria Rd, Chanda.

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Davico Ltd, Connaught Place,  
New Delhi  
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New Delhi  
Standard Mfg Co, Sadar Bazar,  
Delhi (Chocolate).

**INDIAN STATES.**

Bijapur Biscuit Works, Bijapur,  
M S M Rly  
Funnells Ltd, 16, South Parade,  
Bangalore Branches —Cham-  
pion Reef, Kolai Gold Fields  
Lalan Confectionery Mait, Ma-  
tancheiry, Cochin  
Mumtaz Jam Factory, Hyderabad,  
Deccan  
Padma Indian Cocoa Works Ltd,  
Trivandrum, Travancore  
Parry & Co, Ltd, Near S K,  
Press, Cochin

**KARACHI.**

Kohinoor Confectionery Works,  
Rampart Row, Bombay Bazar,  
Karachi

**LAHORE**

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Inside Shahalmi Gate, Lahore

**MADRAS.**

McRennett & Co., 2-141, Mount  
Road, Cathedral P O, Madras

**MADRAS PRESIDENCY.**

English Bakery, Trichy Road,  
Combatoire  
Hindu Matha Confectionery,  
Works, Vizianagiam, Vizag Dt

Indian Confectionery Works,  
Choultry Street, Kadur P O,  
Anantapur Dt  
Madura Confectionery Works,  
Madura  
New Bharat Confectionery, Shiya-  
li, Tanjore.

**PUNJAB.**

M Yasin Khan, Syal Bldg,  
Ferozepore, Punjab  
Tan Sen House Ltd, Jalalpur,  
Jattan.

**SIND.**

J. B. Mangharam & Co., Hd  
Office —Sukkur, Sind B —  
Calcutta, Bombay & Delhi.

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B. L. Meetal & Sons., Charbagh,  
Lucknow  
Bainett & Co, Allahabad  
Bijo Confectionery Works, The  
Mall, Cawnpore  
Industrial Research House, Near  
Bishambhai Palace, Sheo Cha-  
lanlal Rd, Allahabad  
Kashi Diamond Confectionery  
Works Narial Bagan, Benares  
City  
Lucknow House, Vally Bazar,  
Meerut City  
S. Elahi Buksh & Son, Drummond  
Road, Agra  
Valerio (Cawnpore) Ltd, Cawn-  
pore  
Windson Bai & Restaurant, The  
Mall, Mussourie

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A K Bose 14A, Dum Dum Road,  
Ghughudanga, Calcutta  
A Natesan & Co, Pollachi, S I  
(Forest Contractor)  
Abdeyally Samsoodin & Co, Near  
French Bridge, Opera House,  
Gurgaum, Bombay  
Abdul Aziz & Sons, Bazar Khia-  
dian Jullundur City Pb  
Abdul Ghafoor, Partabgarh, Oudh  
Alladin & Co, Alladin Buildings,  
Oxford Street, Secunderabad,  
Amai Nath Mehta, B T Gunja,  
Roorkee.  
American Military Stores, Ludhi-  
ana, Punjab (Military Contrac-  
tors).

Apollo Engineering Co, 84, Apollo  
Street, Fort, Bombay  
Arjani Virbhan Mulchand, P O  
Thatt-Hotchand, District Naw-  
abshah, Sind  
Aswini Kumar Chakraborty,  
Jallaipai P O, Sylhet, Assam  
B D Kaloo Mall & Sons, Si-  
nagar  
B L Mital & Sons, Dunga Niwas,  
Algarh  
B Mulk Raj, Ramgarh, P O,  
Moghalpura  
B P Paroha, Katni Cement Fac-  
tory, P O Katni.  
B R Chandian & Co, 80, Peru-  
mall Mudali St, G T, Madras

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- B R Marathi, "Readers' Circle,"  
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- B S Mathur & Co, Chaturvilas,  
Poota Civil Lines, Jodhpur
- Bashesharnath & Co, 15, Bala-  
khamba Road, New Delhi.
- Bhagat & Sons, Sirwi Fort Road,  
Bombay
- Bharampal Singh, 8, Hailey Rd.,  
Delhi
- Bidhu Bhusan Bose, Feeringhee  
Bazar Road, Chittagong
- Bombay Radio Society, Empire  
Terrace, Near Minerva Cinema,  
Lamington Road, Bombay 7
- Bulchand Alimchand, Station  
Road, Dadu, Sind
- C A Zaveri & Co, 44, Abdul  
Rehman Street, Bombay 3
- C H Shambulingappa & Bros,  
27, Mills Road Bangalore City
- C Lal, Nemichand Bldg., Kotta-  
tengia, Kharagpur, B N Rv
- C Michael Villavaivai, Camp,  
Tuticorin, S I
- Ch. Nathu Ram Mansa Ram  
& Sons,** (Dankers & Contrac-  
tors), Martin Lines, Abbottabad,  
N W F P
- Ch Ram Chand Khattai, M.A.,  
L.L.B., Bannu, N W F P
- Ch Sahib Din Mohd Khalil, Kot-  
wali Road, Lwalipi
- Chaman Lal & Son, Muttra Cantt
- Chandulal Jethalal & Co, 2,  
Munchi Gali, Katha Bazaar,  
Bombay 9
- Chumman Lal & Sons, Halwayan  
Street, Budaun
- Chiranjil Lal & Co, 34, Church  
Road, Muttra Cantt
- Chunilal Khanna & Co, Saraswati  
Nivas, Thakurdwar Rd, Bom-  
bay
- Daya Deojee & Sons, Mahbub-  
nagar, Nizam State
- Dayalal Vishram Chavhan, Wai-  
dha, C P (Ry Contractor)
- Des Raj & Sons, Kasauli, Punjab  
(Motor Contractor)
- Des Raj L S, Near Arya Samaj,  
Gujrat, Punjab
- Deyaldas P Talreja, Hathugate,  
Shikarpur, Sind
- Economy House, Ajmer
- F E Raja, Dohad, (B P) B. B &  
C. I Rly
- Fakirji Rustomji & Sons, Carnac  
Bridge Goods Station, Bombay
- G Karan Jee & Sons, St Sarai  
Pukhta, Aligarh, U P
- G S Bhujji, 42, Moti Bhawan,  
Desilva Road, Dadai, Bombay
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pura, Hyderabad, Dn
- Gurdial Singh Sirmukh Singh,  
Mohd Khurbua, Dehla Dun
- Gyan Chand Vidya Dhar, 17,  
Balkhamba Rd., Delhi
- H Bevis & Co, Bans Mandi,  
Cawnpore
- H L Anand & Bros, Anand  
Buildings, Kapurthala
- Haji Ilahi Bakhsh, Mohamed  
Yaqoob, Pauri, Dt Garhwal.
- Haji Mahboob Buksh Ehsan Ela-  
hi, Meston Road, Cawnpore
- Haigovindas Shrivai, Tank Bun-  
dei, Bombay 10
- Hari Charan Ghosh, 54A, Hidaram  
Banerjee Lane, Calcutta
- Harichand Kapur & Sons, Delhi  
Fort, Delhi
- Hari Singh & Sons, Saidar, Jub-  
bulpore City
- Hindusthan Construction Co Ltd,  
Consti action House, Ballard  
Estate, Bombay
- Hiji Priemji Parmai & Bios,  
P O Dumri, Dt Hazaribagh
- J M Chatterjee, Nayapara, Sam-  
balpur
- J R Postwalla, Hubli, Dhawai
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bagh, Meerut
- Jai Prakash Tayal, 1/158, Nawal  
Ganj, Cawnpore
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Reinforced Concrete)
- Jetha Muljee & Sons, Dumka  
Santal Pargis
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- Kajji Bros, 181, Nagdevi Street  
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- Kerr & Co, 73-B, Amherst Row  
Calcutta.
- Khajuria Trading Co, Raghunati  
Bazar, Jammu

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- Kishori Lall & Sons, Lahore, Cantonment  
 L Dasuram, Dera Ismail Khan  
 L Gurandittaram, Model Town, Lahore  
 L Nand Ram Mangat Ram, Poonch, Kashmir  
 Laxmi Electric Stores, New Rd, Cochin  
 M Abdul Rahim, P. O Mahboobnagar, Hyderabad State  
 M L Dahanukar, Shri Krishna Nivas, Kalvadevi Rd, Bombay  
 M N Subramaniam, R S Puram, Coimbatore  
 M Pirani & Co, 55, James Street, Secunderabad, Dn  
 M V Ramakrishnan, Madras Rd, Pondicherry  
 Madhab Chandra Dey, Babugunj P O, Hooghly, Bengal  
 Malak Ram Daulat Ram, 7, Hailey Road, New Delhi  
 Maula Box, Becongunge, Cawnpore  
 Modern Textile Industries, Prem Narain Rd, Bazar Sitaram, Delhi  
 Morar S Kheta & Co, Itwari Bazar, Nagpur  
 Moti Lal & Bios, Freegunj, Agia  
 Mukandlal Bal Swarup, Dehra Dun  
 Muncherji Vadilal & Co, Cotton Depot, Mazagaon, Bombay  
 Munshi Ram Kashinath, Dandipur, Dehra Dun  
 N B Lama, Ledo, (Assam)  
 Nadhu Shah Kapur & Sons, Kapur Bldgs, Jullunder City  
 Nandalal Saraf, Bogra Town  
 Narayanaswami & Sons, Lakshmi-puram, Mysore  
 Nasseerwanji & Co, 68, Homji St, Fort, Bombay  
 Nigam & Co, Nigam's Bunglow, Katni, C P  
 Orient Trading Co, 100, Clive St, Calcutta (Water Works)  
 P Chelham & Co, 75, Nyniappa Naicken Street, Paik Town, Madras  
 P Cool & Company, 141, Gurudwara Road, Lucknow  
 P R Swami & Co, Electric House, Main Road, Trivandrum  
 P S S Prakasam & Co, 12, Subramania Mudaly St, G T, Madras  
 P V Krishnaiah Chowdhury Garden House, Guntur  
 Phanindra Bhushan Das, Crawford Park, Sambalpur  
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 Punnu Ram & Sons, Wana, Waziristan.  
 R K Chatterjee & Sons, 29, Balaran Bose, 1st Lane, Calcutta  
 Rabindra Kumar Mitra, Nandan Kanan, Chittagong  
 Rajendra Chandra Chatterjee, Sadaghat Road, Chittagong  
 Ramanlal C Patel, Jogidas Vithalji Pole, Baroda  
 Ramdayal Ramchand, Station Road, Lashkar, Gwalior  
 Ramji Haridas, Chakia Chand Bazar, Chauliaganj, Cuttack  
 Ranchhodji Ramji & Co, Sayani Road, Elphinstone Station, Bombay 28  
 S M Elias, Ranikhet House, Civil Lines, Delhi  
 S M Ghose, 3A, Sukea St, Calcutta  
 S Mohamed Arif & Sons, Sadar Bazar, Delhi  
 S Mushtaq Ahmad, Lakhi Bagh St, Dehra Dun  
 S N Mazumdar, Penstonpara, Sambalpur  
 S Udharn Singh Ghulam Mohd, 22, Empress Road, Lahore  
 Sachdev & Co, James St, Secunderabad  
 Sampooram Singh, Jubbulpore  
 Sanyal & Co, 309, Bow Bazar St, Calcutta  
 Sh Mohd Hamza, P.O. Nalagarh State, (Via Rupai) Simla Hills  
 Pratap Hanumiah, 4798, Upper-guda St, Secunderabad-Deccan  
 Reliable Trading Corporation, 339F Thakkar Chappa Street  
 Dhal Mohalla, Lahore  
 S Bhagat Singh, 2225, Karolbagh, Delhi  
 Sharabhuji Prasanna Mazumdar, Nandan Kanan, Chittagong

Shiva Shanker Pd Khattri, Vill  
& P O Jalaun, U P  
Shivprashad Onkarnath, Morar,  
Gwalior State  
Sibpur Engineering & Housing  
Co., Hawakhana Chambers,  
Sibpur Ferry Ghat, Howrah  
Sri Ganga Ram Hari Ram, Sri  
Ganga Ram Buildings, The Mall,  
Lahore  
Sri Ram Uberoi & Co, 51, Begam  
Bagh, Meerut Factory —Khan-  
nagar Gate, Meerut Branch —  
Old Chawri Bazar, Delhi  
Siromani & Co, French Chapel  
Road, Tuticorin  
Sk Noor Mohammed, Sadar  
Bazar, Barrackpore, 24-Pargas

T Doddanah, Garadichickanna  
Buildings, Tumkur.  
Tej Bhan, Mianwali, Punjab  
Thimbaroo Bros & Co, Kumba-  
langry, Cochin  
Trivedi & Company, Kursawan,  
Cawnpore (Gunny & Cotton  
Net Bags)  
Uma & Co, "Sukhanand" Dariba,  
Delhi  
Victor Bios, Shikarpur, Sind  
Visiambhai Walji, Dharampore  
Road, Bulsar, Surat  
Visvanathan & Co, P O Box 612,  
Mylapore, Madras

### COOKER MANUFACTURERS.

Anand Cooker and Metal Works,  
Chandni Chowk, Delhi  
Bengal Chemical & Pharmaceuti-  
cal Works, 164, Manicktala  
Main Rd, Calcutta  
Judhisthir Roy, 70, Shova Bazar  
St, Cal  
Keshab & Sons, 38-2, Gush  
Mukherjee Road, Calcutta

Kitchen Craft Agency, Model  
Town, Lahore  
Mohan Cooker, 33, College St,  
Calcutta  
Monmotho Cooker & Co, 23,  
College St, Calcutta  
Rukmani Cooker Co, 15, East  
Mada Church St, Rayapuram,  
Madras

### CO-OPERATIVE STORES.

Agia Co-operative Stores, 50-A,  
Taj Road, Agia City  
Balugaon (Fishery) Stores, Balu-  
gaon, Puri  
Bangalore City Co-operative So-  
ciety Ltd, New Tharagupet,  
Bangalore City  
Bengal Co-operative Silk Union,  
Malda  
Bombay Swadeshi Co-operative  
Stores Co, Ltd, Sir Phiroze  
Shah Mehta Road, Bombay  
Co-operative Central Paddy Sale  
Society, 10-2D, Canal Circular  
Road, Calcutta  
Co-operative Depot, Tower Block,  
College St. Market, Calcutta  
Co-operative Industrial Depot,  
Tower Block, College St Mar-  
ket, Calcutta  
Co-operative Industrial Union,  
Dacca  
Co-operative Stores, Elphinstone  
Rd, Karachi

Hassan Co-operative Society Ltd,  
Hassan, Mysore  
Hospet Agricultural Co-operative  
Society, Hospet, Mysore  
Indore Co-operative Central Sale  
& Supply Society Ltd, Main  
Topkhana Rd, Indore City.  
Indore Swadeshi Co-operative  
Stores, Ltd, Juna Topkhana,  
Indore City  
Industrial Co-operative Society,  
Ltd, Hyderabad, Deccan.  
Jute Society, Nowgong, Assam  
Kallarkurichi Agricultural & In-  
dustrial Co-operative Society  
Ltd, Kallarkurichi, S Arcot.  
Lalgudi Co-operative Society, Lal-  
gudi, Trichinopoly  
Madura City Co-operative Stores,  
Ltd, Naiker New St, Madura  
Mhow Railway Co-operative  
Stores, Near Rly Instt. Rail-  
way Road, Mhow

Learn all sorts of office works by reading **CLERK'S MANUAL** Re. 1/4.  
**INDUSTRY BOOK DEPT**, Shambazar, Calcutta.

Munnar Indian Co-operative Store Ltd., Munnar, Travancore.

S J Co-operative Society, Camp, Karachi

### COPPER ROD & STRIP MANUFACTURERS.

India Rolling Mills Ltd, 6A, Nriode Behari Mullick Rd, Cal

### COPPERWARE MANUFACTURERS.

Ami Chand Zinabhai Shah, Opp Dhrangadhra Uttara, Wadhwan Camp, Kathiawar

Bhagwan Das Baij Nath Prasad, Gurhatta, Patna City.

C Shunmugam & Co, 61, China Bazar Road, Madras

Chatubhai Lalubhai, Dhangadhra Uttara, Wadhwan Camp, Kathiawar

Chhabildas Kanubhai Panchani, Galemandir Road, Surat

Hukumchand Ragoomall, Gujranwala

K Kikabhai & Co, 155, Bapu Kote St., Jambh Mohalla, Bombay

Kahdas Lalji, Kansara Bazar, Viramgam

Kansar Chhagan Madhavji, Junagadh, Kathiawar

Lalji Gokal, Bazar, Moivi

M Fezullahbhoi & Co, Bhappola Lane, Bombay 3

Maganlal Chatrudas, Kansara Bazar, Viramgam.

Nagindas Maneklal, Bunanpuri Bhagol, Surat

Punjab Brass, Copper & Aluminium Works, Outside Ghee Mandi Gate, Amritsar

Rangildas Paibhudas, Bunanpuri Bhagol, Surat

Sashi Bhusan Provapada Dey, 62, Clive Street, Calcutta

Thakordas Jivaniam, Bunanpuri Bhagol, Surat

### CORKS & CAPSULES DEALERS.

All India Bottle Supplying Co, 153-155, Sheriff Dewji Road, Bombay 3

Ashini Kumar Dass & Co, 180, Lower Chitpur Rd, Calcutta

Bimal Bottle Stores, 50-A, Sui Lane, Calcutta

Bonfields Bottle Stores, 14-4A, Bonfield Lane, Calcutta

C G Depot, 194-12, Old China Bazar Street, Calcutta

Clive Medical Hall, 8, Ezra Street, Calcutta

Continental Bottle Co, 24, Ezra Street Calcutta

Crown Cork Co, 1, Woomakanta Sen Lane, (P O Ghughudanga), Calcutta

H. D. Dutt & Co., 18, Radha Bazar Lane, Calcutta (Direct Importers of Corks of all sizes)

Hazel & Cedar, 4, Kaloo Ghosh Lane, Calcutta

Jain's Ink Depot, 27, Beat, Bangalore

Nath & Bros, 67, Ezra St, Cal

O T Kader Basha Sahib & Bros, Rangoonwala, 17, Ezra Street, Calcutta (Also Labels)

P S Dutt & Bros, 8, Ezra St, Calcutta

Popular Chemical Works, 167, Russa Rd, Calcutta

Radha Bazar Bottle Stores, 15, Radha Bazar Lane, Calcutta

S P Singha & Co, 67, Ezra St, Calcutta

Topall Works, Lucknow Br — Calcutta, Bombay and Madras

Universal Capsules Manfg. Co, Gandhinagar, Cocanada

### CORN FLOUR DEALERS.

Corn Products Co, (India) Ltd, Curumbhoy House, Waudby Road, Bombay

Satya Charan Dutt, 99-3, Canning Street, Calcutta

**WHAT? CORK, CAPSULES, TOPPLE CORK, etc.**

Write to C G DEPOT, 194/1A, Old China Bazar St., Cal.

**COTTON BROKERS.**

- A M Poddai, 5, Hamam Street, Bombay
- Arjan Khimji & Co, Gustad Chamber, 41, Su Phioze Sha Mehta Rd, Bombay
- Baboolal Galgadas, 28, Marwarī Bazar, Bombay
- Bajinath Gangadhar, Marwarī Bazar, Bombay
- Chaltanyalal & Co, 808, Cotton Exchange Building, Kalbadevi Road, Bombay
- Champaklal Jannadas, Ganeshmal Building, Patwa Chawl, Bombay
- Champalal Kapadia, Taswala Building, Muttai Gali, Zaveri Bazar, Bombay
- Chandulal Vachhraj, Patwa Chawl, Bombay
- Chinubhai Madharlal & Co, Churchgate House, Churchgate St, Fort, Bombay
- Chunilal Krishnalal & Co, 28, Marwarī Bazar, Bombay 2
- D R Kesri Mal, Chandni Chowk, Rutlam
- Deykaran Nanji, Nanji Bldgs, Elphinstone Circle, Fort, Bombay
- Dharamshi Manekchand Sanghavi, Patwa Chawl, Zaveri Bazar, Bombay
- Dipchand Ratanchand, Mahajan Association, Patwa Chawl, Bombay.
- Dulabhji Umedchand & Co, Shaikh Memon St, Punjabi Chawl, 1st Floor, Bombay 2
- Gajadhar Nagarmal, Mahajan Association Hall, Zaveri Bazar, Bombay
- Gangaiam Dwaikadas, 226-30, Kalbadevi Rd, Bombay. 2
- Gill & Co, Lvod Bldg, Graham Road, Ballaid Estate Fort Bombay
- Gordhandas & Co**, Shaikmemon St, Marwarī Bazar, Bombay 2 (Cotton, Bullion & Seeds Brokers, Merchants & Exporters)
- Habib & Sons, Kansara Chawl, Kalbadevi Road, Bombay 2
- Harbilas Gangadutt, 220-24, Kalbadevi Rd, Bombay 2
- Jagannath Sheobux, Above Thakkar Bros, Topiwala, 3rd Floor, Kalbadevi Rd, Bombay 2
- Jagjivandas Dossabhai & Co, Kansara Chawl, Kalbadevi Rd, Bombay 2
- Jamnadas Adukia, Kalbadevi Rd, Bombay 2
- Jamnadas Bansidhai, Front Cotton Exchange Bldg, Kalbadevi Rd, Bombay 2
- Jamshedji R. Vakharia, Cotton Exchange Building, Kalbadevi Bombay
- Kantilal Kalyandas, 48, Benham Hall Lane, Girgaum, Bombay 4.
- Khimji Junja & Co, Marwarī Bazar, Bombay 2
- Kisandas Agachand, 203, Kalbadevi Rd, Bombay 2
- Krushnaraj Dhanubhai & Co, Kalbadevi Rd, Bombay 2
- Langley & Co, Petit Bldg, Hornby Rd, Fort, Bombay
- Liladhai Kausondas & Co, 90, Bazar Gate, Front, Bombay
- Manalal Bhagnath, Khairi Kuwan (Front), Javeri Bazar, Bombay
- Mansukhlal Sukhlal (Taiwala), 18-22, Marwarī Bazar Bombay 2
- Mohanlal Machhi, Punjab Chawl, Marwarī Bazar, Bombay
- Mungalal Gondka, 188, Kalbadevi Rd, Bombay 2
- Nand Kishore Chandni Chowk, Rutlam
- Narayandas Mehta, 171, Shaikmemon St Bombay 2
- P Chrystal & Co, 9, Wallace, St, Fort, Bombay
- Ramchandia Sarda, 14-16, Matkagalli, Vithalwade, Bombay 2
- Ramdas Tulsidas & Co, 610-616, Cotton Exchange Bldg, Kalbadevi, Bombay
- Ramdayal Somani & Co, Singhani Bldg, Marwarī Bazar, Bombay 2
- Ramlal Javerilal Marwarī Bazar, Punjabi Chawl, Bombay 2
- Sarabhai & Sons, 317-21, Hornby Rd, Fort, Bombay

**WHAT? CORK, CAPSULES, TOPPLE CORK, etc.**  
Write to C & DEPOT, 194/1A, Old China Bazar St, Cal.

Sarupchand Prithiraj, Marwari  
Bazar, Bombay 2  
Shivramdas Ganga Prasad, Mai-  
wari Bazar, Bombay 2

Sundarnal Sagarmal, Shaik Me-  
mon St, Bombay 2  
Vijam Laddha & Co, Kalbadevi  
Rd, Bombay 2

### COTTON EXPORTERS.

Chimaniam Motilal, Bullion Ex-  
change Building, Shaik Memon  
St, Bombay.

Cotton Export & Import Ltd,  
Oriental Building, Mahatma  
Gandhi Rd, Bombay

Hirji Nensey, 7-11, Elphinstone  
Circle, Fort, Bombay

J N Roy Choudhury, Sadarghat  
Rd, Chittagong

Louis Dreyfus & Co, Nicol Road,  
Ballard Estate, Bombay

Madhavdas Ameisey & Co, Ori-  
ental Bldgs, Esplanade Road,  
Fort, Bombay

Narandas Rajaram & Co, Navsari  
Chamber, Outram Rd, Fort,  
Bombay

Patel Cotton Co, Ltd, Patel  
House, 10, Church Gate Street,  
Bombay

Ralli Bros, 21, Ravelin St, Fort,  
Bombay

Volkart Bros, 8, Clive Street,  
Calcutta, Karachi, Bombay,  
Tuticorin

### COTTON MERCHANTS.

#### ASSAM

Onkar Cotton Mill, Salmaia  
South, Dhubri, Assam

#### BENGAL

Chakraborty & Sons, 30-1, Kis-  
senlal Burman Rd, Bandha-  
ghat, Salkia, Howrah

Hajee Nazu Meah Sowdagar,  
Strand Rd, Chittagong

Hajee Sayed Ali Sowdagar,  
Strand Rd, Chittagong

Khan Saheb Hajee Meah Khan  
Sowdagar, Baxirhat Road, Chit-  
tagong

#### BOMBAY CITY.

Anandlal Hemraj & Co, 804,  
Cotton Exchange Bldg, Bom-  
bay

Arjan Khimji & Co, Sewree,  
Bombay.

Arvind Ramanlal & Co, Western  
India House, Sir Pheroz Shah  
Mehta Rd, Fort, Bombay

Balnath Gangadhar, 39, Cotton  
Exchange Building, Sewree,  
Bombay

Ballabhdas Eshwardas Agarwal,  
183, Hornby Rd, Fort, Bombay

Bengal Madura Stores, Ram Man-  
dir Building, Kabutar Khana,  
Bhuleshwar, Bombay

Bhagwandas Goveidhandas, 9,  
Wallace St, Fort, Bombay

Bhaidas Cusondas & Co, Sir Vi-  
thaldas Chambers, 16, Apollo  
St, Fort, Bombay

Bhawaji Lakhmidas & Co, 72,  
80, Musjid Bunder Rd, Bombay

Chandulal Kastur Chand, 506, Cot-  
ton Exchange Bldg, Kalbadevi,  
Bombay

Chatrabhoj Jethabhai & Co, 27,  
Chinch Bunder, Bombay

Chinubhai Madhowlal & Co, No-  
ble Chambers, Paisi Bazar St,  
Fort, Bombay

Chunilal B Mehta, 52, Ridge Rd,  
Malabar Hill, Bombay

Chunilal Mehta & Co Ltd, 51,  
Malwar Bazar, Bombay 2

Chunilal Pranjivandas & Co, 307-  
309, Kalbadevi Rd, Bombay

D H Bode & Son, Queen's Man-  
sions, Bastion Rd, Bombay

Durlabhi Umechand Co, 63,  
Shaikh Memon St, Bombay

Hansraj Harji & Sons, 118, Kam-  
sara Chawl, Bombay

Harnundias Ramnaram, 143, Es-  
planade Rd, Bombay

Hirachand Vanechand Desai &  
Co, 22, Apollo St, Bombay

**CATTLE BREEDING & DAIRYING: A Handbook on keeping cows.**  
As. 8. Industry Book Dept, Shambazar, Calcutta.

Jugalkishore Mukatlal, 178-80,

Kalbadevi Rd, Bombay

Kalidas Jasraj, Marwari Bazar, Bombay

Kanj Shivji & Co, S 39, Cotton Exchange, Sewree, Bombay.

Khumji Vishiam & Co, Dana Bunder, Broach St, Bombay.

Kokalbhai Dolatram & Co, 170-72, Kalbadevi Rd, Bombay

M Chandulal & Co, 15-23, 1st Ganeshwadi, Bombay 2

Mulchand Vussanji & Co, 90, Bazar Gate St, Fort, Bombay

Munjee Nathoooboy & Co, Amal Bldg, Sir P Mehta Road, Fort, Bombay

Narsi Nagsee & Co, 3, Chinch Bunder, Bombay

Nathalal Bechardas & Co, 809, Cotton Exchange Bldg, Bombay

P Chiyatal & Co, Sewree, Bombay

Patel Bros, Patel House, Churchgate St, Fort, Bombay

Shamji Karamsi & Co, 27, Chinch Bunder Rd, Bombay

Shantidas Askman, Shanti Nivas, Nepean Sea Rd, Bombay

Tulsidas Khimji, 46, Churchgate St, Fort, Bombay

Vissanji Khimji & Co, 9, Wallace St, Fort, Bombay

#### BOMBAY PRESIDENCY.

Ambalal Somalal Shah, Manek Chowk, Ahmedabad

Bhagvandas Pitamber, Rampura, Viramgam, Ahmedabad

Chimanlal Chhotalal Nanvatty, Haja Patel's St, Pipaldi's Pole, Ahmedabad

Dharamsi Dampi & Co, Lallobhar's Chakla, Broach

Dhrujalal Dalsukhbhai, Dhal's Pole, Ahmedabad

Dolatram Jitaram Pari, Panch Kuva, Ahmedabad

Gudharlal Amritlal Desai, Chang Pole, Richey Rd, Ahmedabad

Himatlal M Shah & Co, Lallobhar's Chakla, Broach

Hira Chand Zinabhai, Bardi Bazar, Viramgam, Ahmedabad

Jekishandas Jamnadas, Bardi Bazar, Viramgam, Ahmedabad

Khimchand Moti Chand, Bardi

Bazar, Viramgam, Ahmedabad

Lalji Moolji, Barsi Town, Sholapuri

M Chandulal & Co, Manek Chowk, Ahmedabad

Manubhai Narotmdas & Co, 225, Ratanpole, Ahmedabad

N A Geria & Sons, 1682, Sir Chinnubhai Road, Ahmedabad

Pestonjee Meherwanjee, Jalna, (Dn)

Rambhai Khodidas, Bardi Bazar, Viramgam, Ahmedabad

Samalbhai Nathubhai Shah, Bazar, Kapadwanj, Kalha

Uttam Chand Chunilal, Bijapur

Vir Chand Dayabhai, Bardi Bazar, Viramgam, Ahmedabad

Vyas Laxmishanker Narbada-shanker, Engineer, Vasant, Spg & Wvg Mill, Broach.

#### CALCUTTA.

Bengal Cotton Trading Co, 25, Swallow Lane, Calcutta

Indian Sema Cotton Plantations Ltd, 12, British Indian Street, Calcutta

Khaltan Sons & Co, 1, Commercial Bldgs, Clive St, Calcutta.

R K Modi 23, Canning Street, Calcutta

#### CENTRAL PROVINCES.

Babulal & Sons, Babulal Buildings, Cotton Market, Nagpur

Eastern Cotton Trading Co, Cotton Market, Amraoti, C P

#### INDIAN STATES.

Chhoteylal Sunderlal, Station Rd, Jaipur

Chunilal Bhagwan Das, Bazar, Morvi, Kathiawar

Chunilal Vane Chand, Bazar, Morvi, Kathiawar

Dungarshi Gulab Chand, Satta Bazar Road, Wadhwan Camp, Kathiawar

Hakubhai Govindji Bazar, Morvi, Kathiawar

Henchand Gordhan Das, Kayastha Amba, Jamnagai, Kathiawar

Jagjivandas Gopalji Khar Gate, Bhavnagar, Kathiawar

**CATTLE BREEDING & DAIRYING: A Handbook on keeping cows.**  
As. 8 Industry Book Dept., Shambazar, Calcutta.

Jasangbhai Ujamsi, Vaidya Uttara, Wadhwan Camp, Kathiawar  
Juthabhai Sakeri Chand, Khai Gate, Bhavnagar, Kathiawar  
Kalidas Naval Chand, Punatar Fali, Jamnagar, Kathiawar  
Kastoori Chand Tongia, Tukoganj, Indore

Lalji Ramji Valia, Khai Gate, Bhavnagar, Kathiawar  
Madan Mohan Jain & Sons, Jivan Kuti, Ujjain

Narbhairam Vane Chand, Bazar, Morvi, Kathiawar

Narshidas Jagjivandas, Danapith, Bhavnagar, Kathiawar

Purushotham Muraljee, 11, Bes-setipet, Cross, Bangalore City  
Rai Bahadur Hira Lal, Tukoganj, Indore

Rahi Brothers, Khai Gate, Bhavnagar, Kathiawar

Sanghvi Kantilal Panachand, Khakhrechi, Kathiawar

Sanghvi Kunchand Sunderji, Morvi, Kathiawar

Sri Sarupchand Hukamchand Rai Bahadur, Kt, Tukoganj, Indore

Volkart Brothers, Khai Gate, Bhavnagar, Kathiawar

#### KARACHI.

Ajmal Jagatiani, Khori Garden, Karachi

Karsandas Jivandas, McLeod Rd, P O Box 39, Karachi.

Lala Jeewantlal & Sons, Khori Garden, Karachi

Tara Chand Ghanshyamdas, Namer Rd, Karachi

#### LAHORE.

Surajmull Ram Paishad, Mandi Patti, Lahore

#### MADRAS PRESIDENCY.

A & F Harvey, Tuticorin, S I

A M M Sinnamami Nadai, South Raja St, Tuticorin

A S Sinnivasam Pillai, South Raja St, Tuticorin

M Viswanadham, P O. Chuala Guntur Dt

Rahi Bros, Ltd, Tuticorin, S I  
Ramdas Khimji & Sons, Tuticorin

Sanjivappa & Sons, Adoni, Bellary Dt.

#### PUNJAB.

B C G A (Punjab) Ltd, Khanewal, Punjab

Bhaiat Industrial Company, Amritsar (Also Woollen Goods).

Darbarilal Hukamchand, Dehra Ghazi Khan

Dhanpatmull Dewan Chand, Lyallpur

Diwan Chand Bootaram, Mandi Jhang, Jhang

Dwarkanadas & Co, Nawabshah  
Gurdial Singh Hari Singh, Muzafrargarh

Iqbalnagar Ginning Factory, Iqbalnagar, Montgomery Dt

Jiwan Shah Sitaram Khalsa Cotton Factory, Bhalwal, Saigodha

Jiwan Singh Nihal Singh, Malout, Ferozepore

Khulasiam Lachhram, Multan

Khushiam Beharilal, Lyallpur

Mangal Das Isher Das, Khaigal Dogran, Sheikhupura

Manghanmull Wadhumal, Tando Adam, Nawabshah

Sewaram Dhoia Shah Lal, Bhalwal, Saigodha

Sri Pallad & Co, Muzaffargarh  
Tulokaram Musaddilal, Mian Channun

#### UNITED PROVINCES.

B N Modi & Company, 14-24, Civil Lines, Post Box No 24, Cawnpore

Dwarka Pd Chhoteylal, Old Kotla Paicha, Farrukhabad

Kesho Ram Ghasi Ram, Kirana Bazar, Farrukhabad

Naram Das Gopal Das, Cawnpore

Patel Cotton Co, Ltd, Bans Mandi, Cawnpore

### COTTON MILLS.

(Also see Weaving Establishments).

#### AJMER-MERWARA.

New Weaving & Trading Co, Ltd, Anasagar Ghati, Ajmer

Sri Bijay Cotton Mills, Bijaynagar, (Ajmer)

Lots of useful formulae for home application are included in  
**DOMESTIC RECIPES** As 5. Industry Book Dept, Shambazar, Cal.

**ASSAM**

Adarsha Cotton Spg & Wvg Mills Ltd, Silchar, Assam  
Sri Luxmi Cotton Mills Ltd, Sylhet, Assam

**BENGAL**

Acharya Profulla Chandra Cotton Mills Ltd, Khulna Calcutta Office —14, Hare St, Calcutta  
Aryan Silk & Cotton Mills Ltd, Jhumka, Murshidabad, Off 12, Chowringhee Sqr, Cal  
Bangasri Cotton Mills Ltd, Sodepur Head Office —4, Clive Ghat Street, Calcutta  
Bangeswari Cotton Mills Ltd, Serampore Office —63, Radha Bazar Street, Calcutta  
Bangodaya Cotton Mills, Panihati Office —176, Cross Road, Cal  
Basanti Cotton Mills Ltd, Panihati, 24-Pargs Factory —14, Clive St, Calcutta  
Bengal Assam Cotton Mills Co, Ltd, Tan Bazar, Narayanganj, Dacca  
Bengal Luxmi Cotton Mills, Ltd, Mahesh, Serampore, Hooghly H O —11, Clive Row, Calcutta  
Bowreah Cotton Mills Co, Ltd, Bowreah Head Office —21, Strand Road, Calcutta  
Chittaranjan Cotton Mills Ltd, Narayanganj H O —14-15, Patuatuly St, Dacca  
Dassnagar Cotton Mills Ltd, Dassnagar, Howrah Managing Agents Dass Brothers  
Deshabandhu Cotton Mills Ltd, Diamond Harbour, 24-Pargs  
Dhakeswari Cotton Mills Ltd, 6, Ananda Ch Roy St, Dacca  
Dunbar Mills, Ltd, Shamnagar H O —21, Strand Rd, Calcutta

East Bengal Jute & Cotton Mills Ltd, 48, Johnson Road, Dacca  
East India Cotton Mills Ltd, Maunigiam, Howrah H O —120, Darmahatta St, Calcutta  
Great Bengal Knitting & Cotton Mills Ltd, 29, Strand Rd, Cal Mills—Salka, Howrah  
Hooghly Cotton Mills Ltd, Serampore  
Kesoram Cotton Mills, Ltd, Garden Reach Rd, Calcutta H O —8, Royal Exchange Place, Cal  
Laxminarayan Cotton Mills Ltd, Narayanganj H O —3-6, Johnson Road, Dacca  
Luxmi Spinning & Weaving Mills Ltd, P O Bondoi, Dacca  
Mahalaxmi Cotton Mills Ltd, Palta, 24-Parganas Office —11, Clive St, Calcutta  
Mohini Mills Ltd, Kushtia Bazar, Nadia  
New Model Cotton Mills Ltd, Mymensingh  
Rampooria Cotton Mills Co, Serampore H O —148, Cotton St, Calcutta  
Shree Hanuman Cotton Mills Co, 46, Strand Rd, Calcutta Mills—Jagunnathpur P O, Uluberia, Howrah  
Shree Radha Krishna Cotton Mills, Belur H O —9, Juggo Mohan Mallick's Lane, Calcutta  
Sree Cotton Mills Ltd, 2, Church Lane, Calcutta  
Sri Durga Cotton Spinning & Weaving Mills Ltd, Konnagar H O —167, Old China Bazar St, Calcutta  
Tripura Cotton Mills, Ltd, Comilla Factory —Sujanagar, Comilla

## **Acharya Profulla Ch. Cotton Mills**

LIMITED,

**KHULNA.**

**CLOTHS ARE SOLD ALL OVER THE COUNTRY**

**The company has been paying dividend since 1939.**

**Chairman Board of Directors :—SIR, P. C. ROY,**

**Head Office.—KHULNA, (BENGAL).**



Vidyasagar Cotton Mills Ltd.,  
Sodepur Office—24, Strand  
Road, Calcutta.

Young India Cotton Mills Ltd, 20,  
Strand Road, Calcutta.

### BIHAR.

Bihar Cotton Mills, Ltd, Phul-  
wari Sharif, Patna M/A Ka-  
shinath & Co

Gaya Cotton & Jute Mills Ltd,  
Gaya

### BOMBAY ISLAND.

Apollo Mills Ltd, De-Lisle Road,  
Bombay H O—Dougall Road,  
Ballard Estate, Fort, Bombay

Bombay Cotton Manufacturing  
Co, Ltd, Kalachowki Road,  
Chinchpokly, Bombay

Bombay Dyeing & Mfg Co, Ltd,  
Neville House, Ballard Estate,  
Bombay

Bombay Industrial Mills Co, Ltd,  
Ferguson Road, Lower Parel,  
Bombay

Bradbury Mills Ltd, Ripon Road,  
Jacob Circle, Bombay

Century Spinning and Manufac-  
turing Co, Ltd, Dehsie Road,  
Bombay.

Colaba Land & Mill Co, Ltd,  
Victoria Bunder, Sassoon Dock  
Bombay

Coorla Spg & Wvg Co, Ltd,  
Kurla, Bombay

Crown Spg & Mfg Co, Ltd, New  
Parbhadevi Road, Parel,  
Bombay

David Mills Co, Ltd, Nos 1 & 2,  
Carroll Road, Parel, Bombay

Dawn Mills Company, Ltd, Fer-  
guson Road, Lower Parel, Bom-  
bay

Dhanraj Mills, Ltd, Sun-Mill  
Road, Lower Parel, Bombay

Digvijaya Spinning & Weaving  
Ltd, Lal Baug, Parel,  
Bombay

E D Sassoon United Mills Ltd,  
Alexandria Mill, Ghorupdeo Rd,  
Chinchpokli, Bombay

Edward Sassoon Mills, Ltd, Fer-  
guson Road, Parel, Bombay

Elphinstone Spinning & Weaving  
Mills Co, Ltd, Elphinstone  
Road, Parel, Bombay

Finlay Mills, Ltd., Government  
Gate Rd, Parel, Bombay

Gold Mohur Mills Ltd, Old Dadai  
Road, Bombay 14

Hattersley Mill Co, Ltd, Lessee,  
Amritlal Ojha & Sons, Rehman  
Building, Church Gate St, Fort,  
Bombay Factory—Ghatkopar

Hindoostan Spg & Wvg Mills  
Co, Ltd, Ripon Road, Jacob  
Circle, Bombay

Hujee Mills Ltd, Ferguson Rd,  
Lower Parel, Bombay.

Indian Manufacturing Co, Ltd,  
Ripon Rd, Jacob Circle, Bom-  
bay

Indore Malwa United Mills Ltd,  
1st Floor, Manekji Wadia Bldg,  
125, Bell Lane, Fort, Bombay

Jacob Sassoon Mill, Suparibaug  
Road, Parel, Bombay

Jam Manufacturing Co, Ltd,  
Lalbag, Parel, Bombay

Jubilee Mills Ltd, New Sewree  
Road, Bombay No. 15

Kamala Mills, Dehsie Road, Bom-  
bay

Khatau Makanji Spg & Wvg Co,  
Ltd, Harnes Road, Byculla,  
Bombay

Kohinoor Mills Co, Ltd, Naigaum  
Cross Road, Dadar, Bombay,  
Lady Jamshedji Road, Dadai,  
Bombay.

Madhowji Dharamji Mfg Co Ltd,  
Folias Rd, Bombay No 8

Madhusudan Mill Ltd, DeLisle  
Road, Bombay

Manchester Mill, Chinchpokli  
Cross Lane, Bombay

Meyer Sassoon Mills, Ltd, Fer-  
guson Rd, Lower Parel, Bom-  
bay

Modern Mills Ltd, 70, Forbes St,  
Fort, Bombay. Factory—El-  
phinstone Road, Parel & Maha-  
laxmi, Bombay.

Moon Mills, Limited, New Sewree  
Road, Sewree, Bombay

Morajee Goculdas Spg & Wvg  
Co, Ltd, Suparibag Rd, Parel,  
Bombay 12

Improve your kitchen garden from hints given in **GARDENING BITS.**  
Price As 5. Industry Book. Dept., Shambazar, Calcutta

New China Mills, Ltd, 29, Church Gate Street, Fort, Bombay  
Branch —Sewree  
New City of Bombay Mfg Co, Ltd, Bombay  
New Great Eastern Spg. & Wvg Co, Ltd., Parel Road, Chinchpokli, Bombay  
New Islam Mills, Suparibaug Road, Parel, Bombay  
New Kaiser-Hind Spinning & Weaving Co, Ltd, Gorupdeo Road, Chinchpokli, Bombay  
New Union Mills, Ltd, DeLisle Road, Chinchpokli, Bombay  
Phoenix Mills Ltd, Ferguson Road, Lower Parel, Bombay  
Podar Mills Ltd, DeLisle Road, Bombay  
Premier Mills Ltd, Ferguson Rd, Lower Parel, Bombay  
Rachel Sassoon Mill, Chinchpokli Road, Bombay  
Raghuvanshi Mills Ltd, Harnes Rd, Mahaluxmi, Bombay  
Ruby Mills Ltd, Lady Jamshedji Road, Dadai, Bombay  
Sassoon Spinning & Weaving Co, Ltd, Mount Estate, Mazagaon, Bombay  
Seksaria Cotton Mills, Ltd, DeLisle Rd, Lower Parel, Bombay  
Shree Niwas Cotton Mills Ltd, DeLisle Road, Lower Parel, Bombay 13  
Shree Ram Mills Ltd, 324, Hornby Road, Fort, Bombay  
Simplex Mills Co, Ltd, Clark Road, Jacob Circle, Byculla, Bombay  
Su Shapurji Bioacha Mills, Ltd, DeLisle Road, Bombay.  
Standard Mills Co, Ltd, Paibadevi Road, Lower Parel, Mahim, Bombay  
Swadeshi Mills Co, Ltd, 24, Bruce St, Fort, Bombay  
Swan Mills Ltd, Sewree, Bombay  
Tata Mills, Ltd, Dadai Road, Parel, Bombay  
Victoria Mills Ltd, Gamdevi Rd, Bombay No 7  
Western India Spg & Mfg Co, Ltd, Kalachowki Road, Chinchpokli, Bombay

**BOMBAY PRESIDENCY.**

Ahmedabad Advance Mills Co, Ltd, Outside Delhi Gate, Ahmedabad  
Ahmedabad Cotton Mfg Co., Ltd., Outside Sarangpuri Gate, Ahmedabad.  
Ahmedabad Industrial Mills, Co, Ltd, Gontipur Road, Ahmedabad  
Ahmedabad Jaya Bharat Cotton Mills Ltd, Mithapur, P O Box No 24, Ahmedabad  
Ahmedabad Jubilee Spg & Mfg Co, Ltd, Agents M/s Chimanlal Nagindas & Co Outside, Daniapur Gate, P O Railwaypura, Ahmedabad No 2  
Ahmedabad Jupiter Spinning Weaving & Manufacturing Co, Ltd, Ahmedabad  
Ahmedabad Kaiser-Hind Mills Co, Ltd, Outside Raipur Gate, Ahmedabad  
Ahmedabad Laxmi Cotton Mills Co, Ltd, Outside Raipur Gate, Ahmedabad  
Ahmedabad Laxmi Cotton Mills Ltd, Near Khokhara Memdabad, Ahmedabad  
Ahmedabad Manufacturing & Calico Printing Co, Ltd, Outside Jamalpuri Gate, Ahmedabad  
Ahmedabad New Textile Mills Co, Ltd, Outside Raipur Gate, Ahmedabad  
Ahmedabad Sarangpuri Mills, Co, Ltd, Outside Raipur Gate, Ahmedabad  
Ahmedabad Shri Ramkrishna Mills Co, Ahmedabad  
Apt Mills Ltd, Rakhial Road, Ahmedabad  
Aruna Mills Ltd, Naroda Road, Ahmedabad  
Arvind Mills Ltd, Naroda Road, Ahmedabad  
Aryodaya Ginning & Mfg Co, Ltd, Asarva Road, Ahmedabad  
Aryodaya Spinning & Weaving Co, Ltd, 1 & 2, Asarva Road, Ahmedabad  
Ashok Mills Ltd, Naroda Road, Ahmedabad

Improve your kitchen garden from hints given in **GARDENING BITS.**  
Price As. 5. Industry Book Dept., Shambazar, Calcutta.

Becharidas Spinning & Weaving Mills Co, Ltd, Raikhad, Ahmedabad	Harivallabhdas Mulchand Mills Co, Ltd, Outside Dariapur Gate, Ahmedabad
Behari Mills Ltd, Ahmedabad	Hathising Manufacturing Co, Ltd, Outside Saraspur Gate, Ahmedabad
Bhalakia Mills Co, Ltd., Kankaria Rd, P B No 29, Ahmedabad	Himabhai Manufacturing Co, Ltd, Near Saraspur Gate, Ahmedabad
Bharatkhand Textile Mfg Co, Ltd, Post Box No 30, Ahmedabad. Mills Camp Road, Ahmedabad.	Jam Shri Ranjitsinghu Spinning & Weaving Mills Co, Ltd, Sholapur, Bombay Pcey
Bharat Laxmi Cotton Mills Co, Ltd, Beyond Kankaria Railway Siding, Ahmedabad.	Jayanti Mills Ltd, Viramgaum, Bombay Pcey
Bharat Spg & Wvg Co, Ltd, Hubli, Dhawari Office—Gool Mansion, Homji Street, Fort, Bombay 1	Jayashakai Mills, Ltd, Baisi Town, Bombay Pcey.
Bharat Vijaya Mills, Ltd, Kalol, N Gujarat	Jehangir Vakul Mills Co, Ltd, Outside Delhi Gate, Ahmedabad
Broach Fine Counts Spinning & Weaving Co, Ltd, Mohammadpura Road, near Station, Broach	Kalyan Mills Ltd, Naroda Road, Ahmedabad
Chalisgaon Shri Laxmi Narayan Mills Ltd, Chalisgaon, E Khandesh	Khandesh Spg. & Wvg Mills Co, Ltd, Jalgaon, East Khandesh Dist
Chandiodaya Mills, Ltd, Viramgaum, Bombay Pcey	Lakshmi Cotton Manufacturing Co, Ltd, Sholapur
Chhotalal Mills, Ltd., Kalol, North Gujarat, Bombay Pcey	Lalibhai Tricumlal Mills Ltd, Rakhal Lal Road, Ahmedabad
City of Ahmedabad Spinning & Manufacturing Co, Ltd, Kankaria Road, Ahmedabad.	Lokamanya Mills, Baisi Ltd, Baisi Town, Bombay Pcey
Commercial Ahmedabad Mills Co, Ltd, Dariapur, Karpur, Ahmedabad	Maheshwari Mills Ltd, Shahibag Road, P O Box No 79, Ahmedabad
Gendalal Mills Ltd, Jalgaon, E Khandesh	Maneckchowk & Ahmedabad Co, Ltd., Railwaypura Post, Ahmedabad
Girdhardas Harivallabhdas Mills Ltd, Outside Piemdarwaja, Ahmedabad	Manecklal Harilal Spinning & Mfg Co, Ltd, Saraspur, Ahmedabad
Gokak Mills, Ltd, Gokak Falls, Belgaum Dt	Marsden Spinning and Manufacturing Co, Ltd, Gontipur, Ahmedabad
Gopal Mills Co, Ltd, White Road, Broach.	Monogram Mills Co, Ltd, Ahmedabad
Gujarat Cotton Mills Co, Ltd, Naroda Road, Ahmedabad	Motilal Hirabhai Spinning, Weaving & Mfg Co, Ltd, Outside Piem Gate, Ahmedabad
Gujarat Ginning & Manufacturing Co, Ltd, Outside Kalupur Gate, Ahmedabad	Nagari Mills Co, Ltd, Jagnath Mahadev Road, Gontipur, Ahmedabad
Gujarat Spinning & Weaving Co, Ltd, Outside Kalupur Gate, Ahmedabad	Narayandas Chunilal Cotton Spg & Wvg Mills, Gadag, Dharwar
	Narsinggirji Manufacturing Co, Ltd, Station Road, Sholapur
	National Mills Co, Ltd, Gontipur Road, Ahmedabad

Navjivan Mills Ltd., Kalol, North Gujarat  
 New Chhotalal Mills Ltd., Kadi, N Gujarat  
 New Commercial Mills Co., Ltd., Naroda Road, Ahmedabad  
 New Manechchock Spg & Wvg Co., Ltd., Outside Dandiapur Gate, Railwaypura, Ahmedabad  
 New Pratap Spg., Weaving & Mfg Co., Ltd., Dhulia, W Khandesh  
 New Rajput Mills Co., Ltd., Gomtipur, Ahmedabad  
 New Shorrock Spinning & Manufacturing Co., Ltd., Nadiad, Dist Kaira  
 New Swadeshi Mills of Ahmedabad Ltd., Naroda Road, Ahmedabad  
 Nirajan Mills, Ltd., (formerly Tikayaram Mills), Surat  
 Nutan Mills Ltd., Saraspur Road, Ahmedabad  
 Patel Mills Co., Ltd., Gomtipur Road, Ahmedabad  
 Pratap Spg. Wvg & Mfg Co., Ltd. Amalner, Khandesh  
 Rajput Manufacturing Co., Ltd., Outside Saraspur Gate, Ahmedabad  
 Raja Bahadur Motilal Poona Mills, Ltd., 5, Kennedy Road, Poona  
 Rajnagar Spinning, Wvg & Mfg Co., Ltd., N 1, Railwaypura Post, Camp Road, Ahmedabad  
 Rohit Mills Ltd., Mithapur, Ahmedabad  
 Rustom Jehangir Vakil Mills Co., Ltd., Outside Delhi Gate, Ahmedabad  
 Sarangpur Cotton Manufacturing Co., Ltd., Outside Raipur Gate, Ahmedabad  
 Saraspur Mills, Ltd., Near Saraspur Gate, Ahmedabad  
 Sholapur Spg & Wvg Co., Ltd., Station Road, Sholapur  
 Shorrock Spinning & Manufacturing Co., Ltd., Asarva Rd., Ahmedabad  
 Shree Sayaji Jubilee Cotton & Jute Mills Co., Ltd. Sidhpur  
 Shri Ambica Mills Ltd., Kankaria Loco Siding, Ahmedabad

Shri Gajanan Weaving & Spinning Mills, Sudampuri, Sangli, S M Country  
 Shri Laxmi Weaving & Manufacturing Co., Ltd., Rajpur, Gomtipur Road, Ahmedabad  
 Shri Vivekanand Mills Ltd., Gomtipur Road, Ahmedabad  
 Shrinagar Weaving & Manufacturing Co., Ltd., Near New Rly Overbridge, Ahmedabad  
 Sidhpur Mills Ltd., Sidhpur, N Gujarat  
 Silver Cotton Mills Co., Ltd., Kankaria Road, Ahmedabad  
 Surat Cotton Spinning & Weaving Mills Ltd., Begamwadi, Surat  
 Suryapakash Weaving Factory, Near Station Road, Surat  
 Tikekar Textile Mill, Ltd., Tikekerwadi, Sholapur Dt  
 Vijaya Mills Co., Ltd., Naroda Road, Ahmedabad  
 Vikram Mills Ltd., Outside Rakhial Gate, Ahmedabad  
 Vishnu Cotton Mills Ltd., Shrivapur

#### CENTRAL INDIA

Shree Sajjan Mills Ltd., Rutlam

#### CENTRAL PROVINCES.

Bengal Nagpur Cotton Mills Ltd., Rajnandgaon  
 Berar Manufacturing Co., Ltd., Kent House, Sir P Mehta Rd., Fort, Bombay  
 Buihanpur Tapti Mill Ltd., Buihanpur, Lal Bag, Nimar Dt  
 Central India Spg Wvg & Mfg Co., Ltd., Nagpur  
 Model Mills, Nagpur, Ltd., Umier Road, Nagpur H O — Kent House, Sir P Mehta Rd, Fort, Bombay  
 Pulgaon Cotton Mills Ltd., Pulgaon, C P  
 Rai Bahadur Bansulal Abirchand Spinning & Weaving Mill Hinganghat  
 Rai Sahib Rekhechand Gopaldas Mohota Spinning & Weaving Mills, Hinganghat  
 Savatram Ramprasad Mills Co., Ltd., Akola, Berar  
 Vidarbha Mills, Berar Ltd., Ellichpur, Amraoti Dt.

"Careers of Agents and Middlemen" A reliable guide on the functions, Scopes and qualifications of Agents and Middlemen, Price Re. 1/4.

**DELHI.**

Birla Cotton Spg. & Wvg Mills,  
Ltd., Subzimundi, Delhi

**Delhi Cloth & General Mills  
Co., Ltd., Delhi**

Goenka Cotton Spinning & Weav-  
ing Mills Co., Ltd., Ghand  
Trunk Road, Delhi.

Lakshmi Chand Jeoporia Spinning  
& Weaving Mills, Subzimandi,  
Delhi

Mahabir Spinning, Weaving &  
Manufacturing Co., Sabzi Man-  
di, Delhi

S. Sujan Singh, Sobha Singh,  
"Barkunth," Queensway, New  
Delhi

**INDIAN STATES.**

A. D. Cotton Mills Ltd., Quilon,  
Travancore

Aurangabad Mills Ltd., Aurunga-  
bad, Hyderabad, Deccan Office  
Bharat Insurance Bldg, Elphin-  
stone Circle, Fort, Bombay

Azam Jahi Mills Ltd., 1920, Khar-  
atabad Road, Hyderabad

Bangalore Woollen, Cotton and  
Silk Mills Co., Ltd., Agaram  
Road, Bangalore City

Baroda Spinning & Weaving Co.,  
Ltd., Pani Gate, Baroda

Binod Mills Co., Ltd., Ujjain,  
Including Deep Chand Mills

Cambay State Mills, Cambay  
Cotton Ginning, Pressing, Spg &  
Wvg Mills, Nhatpura, Ujjain

Dewan Bahadur Ramgopal Mills,  
Ltd., Elchigudda, Hyderabad,  
Deccan

Edward Mills Co., Ltd., Beawar  
Gaekwar Mills Ltd., Billimora,  
Baroda State

Hua Mills Ltd., Ujjain

Hukumchand Mills Ltd., Indore  
Sarupchand Hukumchand & Co

Hyderabad (Deccan) Spinning &  
Weaving Co., Ltd., Secunde-  
rabad

Jivajee Rao Cotton Mills Ltd.,  
Gwahar

Kalyanmal Mills Ltd., Silnath  
Camp, Indore

Kanti Cotton Mills, Wadhwan  
Civil Station, Kathiawar

Keshav Mills Co., Ltd., Petlad,  
Baroda.

Krishna Kumari Mills Co.,  
Mahuva, Kathiawar

Krishna Mills Ltd., Near Railway  
Station, Beawar

Mafatial Fine Spg. Mfg Co.,  
Vijalpur Road, Navsari

Mahaboob Shahi Gulbarga Mills  
Co., Ltd., Gulbarga

Mahalakshmi Mills Co., Ltd.,  
Beawar.

Mahalaxmi Mills Ltd., Bhavnagar  
Maharaja Kishangarh Somayag

Mills Co. (Trans.), Ltd., Kishan-  
garh, Rajputana

Maharana Mills Ltd., Porbandar.

Mineiva Mills Ltd., Magadi Road,  
Bangalore

Mohindar Cotton Factory, Sihind,  
Patiala State

Motilal Agarwal Mills Ltd., Gwa-  
lior

Mysoie Spinning & Manufactur-  
ing Co., Ltd., Venkatrang Iyen-  
gar Road, Malleswaram, Banga-  
lore

Nandalal Bhandari Mills Ltd., In-  
dore City

Navsari Cotton & Silk Mills Ltd.,  
Vijalpur Rd., Navsari, Baroda

New Baroda Mills Ltd., Goya  
Gate Baroda

New Jehangir Vakil Mills Co.,  
Ltd., Bhavnagar, Kathiawar

Osmanshahi Mills Ltd., 1920,  
Kharatabad Road, Hyderabad

Petlad Bulakhidas Mills Co., Ltd.,  
Near Station Road, Petlad

R. B. Seth Tikamchand Bhag-  
chand Spinning & Weaving

Mills, Kishengarh, Rajputana  
Rai Bahadur Kanhaiyalal Bhan-  
dari Mills Ltd., Indore City

Rajkot State Cotton Mills, Karan-  
singhi Cross Road, Karanpura,  
Rajkot, Kathiawar

**Rajkumar Mills Ltd., Indore  
City.**

Rajratna Naranbhai Mills Co.,  
Ltd., Petlad (Baroda)

Santokhai Weaving Factory, Near  
Station Bhavasingi Road,  
Bhavnagar.

For detailed methods of construction of radio sets, consult **RADIO  
RECEPTION IN THEORY & PRACTICE**. Rs. 2/8. Industry Book Dept.

Shapoorjee & Co, Rajkot, Kathiawar

Shree Amarsingji Mills Ltd, Wankane, Kathiawar.

Shree Krishna Weaving Mill, Subramanyapur, Uttanahalli, Mysore

Shree Yamuna Mills Ltd, Goya Gate Station, Baroda

Shri Dinesh Mills Ltd, Padra Road, Baroda

Shri Jagadish Mills, Padra Rd, Baroda

Shri Shahu Chhatrapati Spg & Wvg Mills, Shahupuri, Kolhapur

Sitaram S & W Mills, Ltd, Trichur, Cochin

Sri Krishna Rajendra Mills Ltd, Bangalore, Mysore

Suryodhaya Mills, Yeswanthapur Bangalore (Also Dyeing)

Swadesh Cotton & Flour Mills Ltd, Indore City

Yeshwantpur Silk & Cotton Mills, Yeshwantpur, Bangalore City

#### MADRAS PRESIDENCY

Aaron Spinning & Weaving Mills Ltd, Pappinissei N Malabar

Andhra Cotton Mills (formerly Krishna Cotton Mills, Ltd), Tadepalli, Guntur Dist

Buckingham & Carnatic Co, Ltd, Perambore, Madras

C Aaron & Son's Weaving Factory, Pappinissei, North Malabar

Cambodia Mills Ltd, Singanallur P O, Coimbatore Dt

Coimbatore Cotton Mills Ltd, Singanallur, Coimbatore

Coimbatore Spg & Wvg Co, Ltd, Annappalayam, Coimbatore

Commonwealth Weaving Factory, Cannanore

Davangere Cotton Mills Ltd, Davangere, S I

Dhanalakshmi Mills Ltd, Utthukuli Road, Tiruppur

Dwarka Mills Ltd Coimbatore

Janardan Mills Ltd, Coimbatore

Kaleeswarar Mills Ltd, Anuppalayam Coimbatore

Kumaran Mills Ltd, Coimbatore

Laxmi Mills Co, Ltd, Pappanackkenpalayam, Avanashi Road, Coimbatore

Lotus Mills Ltd, Sundrapuram, Podanur, S I

Loyal Mills Ltd, Kovilpatti, Tinnevely Dt

Madras United Spg & Wvg Co., Ltd, DeMellows Road, Choolai, Madras

Madura Mills Co, Ltd, Factories at Madura, Tuticorin Ambasamudram, Madura East

Mahalakshmi Textile Mills, Ltd, Pasumalai P O, Madura

Malabar Spinning & Weaving Co., Ltd, Kallai, Malabar

Palani Andavar Mills Ltd, Dhally Road, Udumalpet

Pankaja Mills Ltd, Coimbatore

Radha Krishna Mills Ltd, Peelamedu, Coimbatore

Raja Mills Madura

Rajapalayam Mills, Rajapalayam, Madura Dt

Rajalakshmi Mills Ltd Uppilpalayam, Singanallur, Coimbatore

Salem Rajendra Mills Ltd, Salem

Somasundaram Mills Ltd, 270, Mill Road, Coimbatore

Sree Meenakshi Mills, Ltd, Thiruppalankundiam Rd, Madura

Sri Kathandiam Mills, Venkatapaty Ivengai Lane, Ramnad Road, Madura

Sri Ramalinga Choodambikai Mills Ltd, Tiruppur

Sri Ramchandra Spg & Wvg, Mills, Pandalapaka, Godavary

Sri Ranga Vilas Ginning Spg & Wvg Mills, Ltd Peelamedu, Coimbatore

Sri Sarada Mills Ltd, Podanur, Coimbatore

Sri Suvanaravana Spinning & Weaving Mills, Pandalapaka, Godavary

Trichinopoly Mills Ltd, Trichinopoly

Vasanta Mills Ltd, Singanallur, Coimbatore

#### PONDICHERRY.

Anglo-French Textile Co, Ltd, Pondicherry.

For detailed methods of construction of radio sets, consult **RADIO RECEPTION IN THEORY & PRACTICE**. Rs. 2/8. Industry Book Dept

Establishment Textile De Model-  
apeth S A Modelhapet, Pon-  
dicherry

Savana Societe Anonyme de fila-  
ture et Tissage Macamque, Sa-  
vana, Pondicherry.

#### PUNJAB.

Amritsar Textile Finishing Mills  
Co., Outside Ghee Mandi Gate,  
Amritsar

Bula Cotton Factory Ltd, Okhara  
Dayalbagh Spinning & Weaving  
Mills, G T Road, Amritsar

Guru Ram Dass Spg, Wvg, and  
Ginning Cotton Mills, Grand  
Trunk Road, Amritsar

**Lyalpur Cotton Mills**, Lyall-  
pur, Punjab

Mela Ram Cotton Mills, Mela Ram  
Road, Lahore

Punjab Cloth Mills Limited, Bhi-  
wani, Hissai

Punjab Textile Mills Ltd, Mont-  
gomery

Punjab Textile Mills Co, Ltd, 12,  
Jail Road, Lahore

Shri Benkateswar Cotton Spg &  
Wvg Mills, Bhiwani

Sutlej Cotton Mills, Okhara

#### SIND.

Sind Textile Mills, Karachi

#### UNITED PROVINCES.

Atherton Mills Ltd, Anwarganj,  
Cawnpore

**Benares Cotton & Silk Mills  
Ltd.**, Chowkaghat, Benares  
Cantt

Bihl Mills, Mendu Gate, Hathras  
City

Cawnpore Cotton Mills Co., Coo-  
perganj, Cawnpore

Cawnpore Textiles Ltd, Chinght-  
ghai, Cawnpore

Elgin Mills Co, Ltd, Civil Lines,  
Cawnpore

J K Manufacturers Ltd, Kalpi  
Road, Cawnpore

Jugglal Kamlapat Cotton Spg &  
Wvg Mills, Ltd, Cawnpore.

Kakomi Cotton Mills, Juh, Cawn-  
pore

Lakshmi Raton Cotton Mills Co,  
Ltd, Kamla Tower, Cawnpore  
Factory —Kalpi Rd, Cawnpore  
M/A Beharilal Kailashpat

Lalla Mal Haideo Dass Cotton  
Spinning Mill Co, Sadabad  
Gate, Hathras City, Aligarh

Moradabad Spinning & Weaving  
Mill Co, Ltd, Kundunpur,  
Moradabad

Mun Mills Co., Ltd, Cawnpore

Munnalal Spg Mills, Sachendi,  
Cawnpore

Narayan Cotton Mills, Bansman-  
di, Cawnpore

New Ramchand Cotton Mill Co,  
Hathras City, Aligarh Dt

New Victoria Mills Co, Ltd,  
Gwaltoh, Cawnpore

Piem Spinning and Weaving  
Mills Co, Ltd, Ujhani, Budaun

Swadeshi Cotton Mills Co, Ltd,  
Juh, Cawnpore

### COTTON WASTE EXPORTERS.

Abdool Hoosain Noorabhai Mad-  
raswalla, 239, Upper Duncan  
Road Bombay

Agarwal & Co, Parade Ground,  
Cawnpore

Barot Bros & Co, Shakti Bha-  
wan, New Chinch Bunder Rd,  
Bombay 9

C Jaiam & Co, 37-39, D'Souza  
St, Bombay 3

Champaklal & Co, Chanda Wadi,  
C P Tank Road Bombay

**G. M. Vyas & Co.**, Narayan  
Bldg, Vithalbhai Patel Road,  
Bombay No 4 (Cotton &

Cotton Waste Merchants, Ex-  
porters, Commission Agents &  
Government Contractors)

Han Lakshmi Das, Maskat.  
Bldg. 106, Bhandari St, Bom-  
bay

Jafferibhoy Kanji, Reay Road,  
Bombay 10

Jani & Company, Vora Mansion,  
Bombay 9

K Dhulla & Co, Post Box No  
5005, Bombay 9

N A Geria & Sons, 1685, Su-  
chinubhai Rd, Ahmedabad

**BENGAL SWEETS**—a reliable guide for preparing Sandesh, Rashgolla,  
Mithai, Sops, etc. at home. Re. 1/12. Industry Book Dept, Calcutta

P R Wallace & Sons, 10, Church  
Gate St, Fort, Bombay  
R P Merathia & Co, 16, Kishen-  
lal Boman Rd, Howrah

Sapt Textile Products (India),  
Ltd, Hariarwala Bldgs, Witter  
Road, Ballard Estate, Bombay

### COTTON WASTE FACTORY.

Cotton Ginning & Pressing Fac-  
tory, Suhind, Patiala State

Ehsan Cotton Ginning Factory,  
Ambala City

Hemraj Cotton Waste Factory,  
Anwaingunge Cawnpore

L N Perma Nand, Coloneingunge,  
Cawnpore

Soft Textile Products (India),  
Ltd, Lloyds Building, Dougall  
Road, Ballard Estate, Bombay  
Textile Waste Co, 71, Clive St,  
Calcutta

### CRAYON MANUFACTURERS.

Bhasin Chalk Pencil Factory,  
Gujranwala

Golden Industry, 933, Sowrashta  
Big Street, Kumbakonam

Gurunathan Chalk Works, Al-  
yalua, Bombay

H P Kharwala, 275, Samuel St,  
Vadgadi, Bombay

Indian Crayon Works, Ahmed-  
nagar

Modern Chalk Pencil Co, Gujran-  
wala, Punjab

N Dutt, Bainagore, Calcutta

Northern India Industries Ltd,  
Sialkot City

Sree Radha Krishna Chalk  
Works, Nuzvid, Krishna Dt  
Bt —Tada, (Nellore Dt), (Pre-  
paring Chalk Crayon for Board  
Use)

Standard Chalks Co, Old Post  
Office Road, Trichinopoly

### CROCKERY DEALERS.

A Latiff, B 62, 63 & 64, Municipal  
Market, Calcutta

A M Dadabhoi, 55-7, Canning  
Street, Calcutta Bt —Kutub  
Road Sadai Bazar, Delhi

A S Abdul Kader, 19-20, James  
St, Secunderabad, Deccan

Aditya Chandra Bose & Sons, 191,  
China Bazar St, Calcutta

Almohamed & Co, 24-27, Old  
China Bazar St, Calcutta

Bepin Behari Paul, 195, Old  
China Bazar St, Calcutta

Durlav Chandra Mazumdar,  
28-17, Old China Bazar St, Cal

Dutt & Co, 28-1 to 8, Old China  
Bazar Street, Calcutta

Glassware & Chinaware Supply-  
ing Bureau, Royal Bldgs, 95,  
Janykar St, Bombay 3

Jaganath Stores, 201, Old China  
Bazar Street Calcutta

Jagjwan & Sons Bunder Road,  
Karachi

Jivandas G Sampat & Co, 80-A,  
Mahomedally Road, Bombay

Khan Mohamed & Bros, 28-16,  
Old China Bazar St, Calcutta

N Mullick & Co, A31, Municipal  
Market, Calcutta



MANUFACTURERS, STOCKISTS & CONTRACTORS FOR COTTON  
WASTE FOR CLEANING ALL CLASSES OF MACHINERY.



P. D Gooba & Sons, Mail Road,  
Cawnpore  
Radha Kanto Dass & Sons, Ltd  
211, Old China Bazar St, Cal  
Rajballav Lookmanji & Co, 212,  
Old China Bazar St, Calcutta  
Royal Chinaware House, B  
Block, 8, Connaught Place,  
New Delhi  
S L Sen & Sons, 266, Bowbazar  
Street, Calcutta

S M Hanif & Co, Meston Road,  
Cawnpore  
Satowrie Dass & Bros, 23, Old  
China Bazar St, Calcutta  
**Sialkot Scale Works,** Kanak  
Mandi, Sialkot City  
United Potteries & Glassware  
Mart, 80-A, Mahomedali Road,  
Bombay 3

**CRUCIBLE DEALERS.**

D Pania & Co, 625, Bakari Pole,  
Ahmedabad  
Kesar Pottery Works, Factory

Road, New Delhi  
Standard Crucible Co of India,  
Vasad, B B & C I Ry

**CURIO DEALERS.****BENGAL**

Habeeb Mullick & Son, Judge  
Bazar & Chowrasta, Darjeeling  
Br —26, Lindsay St, Calcutta  
(Shawls, Carpets, Furs &  
Curios)

**BOMBAY CITY.**

A Bhicajee & Co, Apollo Street,  
Bombay  
B M Trading Corporation, D-16,  
P O Box 237, Bombay  
D Bhicajee & Son, Churchgate  
St., Fort, Bombay  
D Chellaram, Embassy House,  
Sir Phirozshah Mehta Road,  
Fort, Bombay  
Hiranand Valliam, 13-16, New  
Chawl, Near Carnac Bridge,  
Bombay, (Also Carpet)

**BOMBAY PRESIDENCY.**

Curio & Silk Mart, 76, Main St,  
Poona Camp

**CALCUTTA.**

B Motiram, B52-53, A29-30, New  
Market, Calcutta  
Hot Chand Motumal's (The Curio  
Palace), P 122, 123, 124, New  
Market, Calcutta

**CENTRAL INDIA**

R S Gangadeen & Bros, Mhow  
**DELHI**

Bhagwandas & Son, Daireeba  
Kalan, Delhi Br —Bank Road  
Ootacamund

Fakir Chand Raghunath Das  
Jumma Masjid, Delhi  
Jagdishwar Dayal, Dayal Build-  
ings, Near Lloyds Bank, Delhi.  
Kanjumull & Sons, Chandni  
Chowk, Delhi  
Manick Chand, Chandni Chowk,  
Delhi

**INDIAN STATES**

Kashmir & Tibet Trading Co,  
Gowkadal Rd, Srinagar  
Lasso & Sons, 3rd Bridge, Sina-  
gar  
Naram & Co, Chowk Khowalan,  
Jaipur State  
Rajputana Economy House, Johi  
Bazar, Jaipur City  
Rising Sun & Co, Kishenpole  
Bazar, Jaipur City, (Marble)

**LAHORE.**

Thakru & Co, Machehi Hatta St,  
Lahore

**MADRAS CITY**

Chandra & Co, China Bazar,  
Madras

**MADRAS PRESIDENCY.**

H A Ebrahim Sait, Coonoor

**RAJPUTANA**

Rajputana Marble Co, Makrana,  
Rajputana

**UNITED PROVINCES**

Agra Marble Curio (Regd), Site  
No 2, Jumna Rd, Agra

Valuable directions for construction of aeriads and receivers are explain-  
ed in **RADIO RECEPTION IN THEORY & PRACTICE** Price Rs 2/8.

Agra Marble Works, Co., Drummond Road, Agra  
Balkishan Seth & Bros., Benares  
Bhargava Bros., Banda  
K P. Saksena & Co., Newazganj, Lucknow

Laxmi Lal Anand Bros., Shyam Niwas, Almora  
Munshi Ganeshi Lal & Sons, 9, Drummond Road, Agra.  
Peticash Bros., Benares City.

### CUTLERY DEALERS.

#### AJMER-MERWARA.

Ibrahim & Sons, Opp Railway Station, Ajmer.

#### BENGAL.

Bhupati Cutlery Works, Sashpur, Bankura  
Eastern Metal Mfg Co., Salkia, Howrah (Ampoule Cutter),  
Esun Grandson, Gharialdanga, Rungpur

#### BIHAR

Bireswai Bose & Co., Falkner's Road, Muzaffarpur  
Eastern Cutlery, Club Road, Muzaffarpur

#### BOMBAY CITY.

Abdul Kayum Esoofally & Bros., 193, Abdul Rehman St., Bombay  
Devidas Nandlal & Co., 241, Abdul Rehman St., Bombay.  
Hansraj Shadilal Jain, 211 Cutlery Bazar, Bombay  
K N Ajani, 102, (M), Swadeshi Market, Kalbadevi Road, Bombay 2  
M H Abdulkarim, 215, Cutlery Bazar, Bombay  
Mahomedally Abdulally, 77, Bhursari Moholla, Sarang St., Bombay  
Punjabi Baderbakhs Md Hossein, Namma Bazar, Bombay No 3  
Sanghani & Co., 178-180, Abdul Rehman Street, Bombay No 3  
Usman Ahmed Hamidani New Cutlery Market, Jumma Masjid, Bombay 2. (Also Fish Hooks).  
V K Shah & Co., 262-68, Kalbadevi Rd., Ram Wadi, Bombay No 2

#### BOMBAY PRESIDENCY.

Dhirajilal Chhaganlal, Khatriwad, Bulsar, Surat  
Ibrahim Kasan Badni, Chhipwad, Bulsar, Surat.

Jusab Hasmani, Choksi Bazar, Viramgram, Ahmedabad  
Manilal Mohanlal, Shak Bazar, Viramgram, Ahmedabad.  
Narshibhai Shankeerbhai & Co., Near Swami Narayan Temple, Nadiad, Kaira

#### CALCUTTA.

A M. Dadabhoy, 55-7, Canning Street, Calcutta Br—Kutub Road, Sadar Bazar, Delhi. (Brass Sieves Moradabadi Spoons)  
Banomaly Dey, 51, Canning Street, Calcutta  
Bengal Cutlery Works, 25, Swallow Lane, Calcutta  
Great Eastern Cutlery & Engineering Works, 6-3, Madan Mitra Lane, Calcutta  
Mazumdar & Co., 113, Manohar Das Chowk, Barabazar, Cal  
Motilal & Son, 51, Canning Street, Calcutta  
Pioneer Cutlery Works, 6A, Belgachia Road, Calcutta  
S W Harri Prosad, B-21-24, New Market, Calcutta.

#### CENTRAL PROVINCES.

Alibhai Mamun, Tajnapeth, Akola

#### DELHI.

S Mohd Arif & Sons, Saddar Bazar, Delhi.

#### INDIAN STATES.

A M Alibhoy, Bhora Bazar, Neemuch Cantt, Gwallior.  
Anandji Nathu, Rajkot Pura, Kathiawar  
Gani Haji Khamisa, Junagadh, Kathiawar  
Gulab Jagjivan, Berthon Sq., Jamnagar.  
Haji Osman Hajivali, Mandvi Chowk, Junagadh, Kathiawar.  
J. Mackanji & Sons, Junagadh.

Valuable directions for construction of aërials and receivers are explained in **RADIO RECEPTION IN THEORY & PRACTICE**. Price-Rs.-2/8.

Kanji Hemraj, Mali Wada, Junagad, Kathiawar  
 Khatri Manilal Chhaganlal, Limbdi, Kathiawar  
 Maganlal Manji Kothari & Co, Rajkot Pura, Kathiawar  
 Prabhudas Laxmi Das, Berthon Sq, Jamnagar, Kathiawar  
 Tajbhai Javaji, Vora Bazar, Bhavnagar, Kathiawar  
 Verji Trikamji, Berthon Sq, Jamnagar  
 Vithaldas Zaveri Chand, Vora Bazar, Bhavnagar, Kathiawar  
 Yusuf Alimulla, Mandvi Chowk, Junagad, Kathiawar

#### MADRAS PRESIDENCY

Metal Industries Ltd, Shoranur, Malabar  
 P Cunjy Mossa & Sons, Tellicherry  
 Swadeshi Knife Works, Near Police Station, Tellicherry

#### PUNJAB.

Bhutta Bros, Nizamabad  
 D R Puri & Sons, Gujrat  
 Hazura Cutlery Works, Wazirabad  
 Hindustan Company, Nizamabad, Punjab  
 Imperial Cutlery Works, Wazirabad  
 India Works, Wazirabad, (Punjab)  
 Kashmiri Cutlery Works, Wazirabad  
 King Cutlery Works, Wazirabad  
 London Cutlery Works, Wazirabad

Metal Works, Kotli Laharan, East Sialkot  
 Nishat Cutlery Works, 'S' M Ibrahim & Co, Wazirabad  
 Pioneer Cutlery Works, Wazirabad  
 Prince Cutlery Works, Wazirabad, Gujranwala  
 S M Ibrahim & Co, Wazirabad  
 Seth Khudayai, Nizamabad,

Seth Mohd Shafi Bhutta, Nizamabad, Punjab  
 Steel Cutlery Works, Wazirabad  
 Victoria Cutlery Works, Wazirabad  
 Zamindar Bros, Cutlery Works, Wazirabad

#### UNITED PROVINCES

Asha Ram Sharma & Co, Mendu, Aligarh, Via Hathras Junction  
 Balkishan & Sons, Sasni Gate, Hathras  
 Brieswar Bose & Co, Falkneis Road, Muzaffarpur  
 Diamond Scissors Co, Meerut City  
 Eastern Cutlery, Club Road, Muzaffarpur  
 Gaiga & Co, Clock Tower, Meerut City  
 Hathras Cutlery Works, Hathras  
 K C Goswami, Sasni, Aligarh  
 M Yusuf & Co, Bazar Peamal, Meerut  
 R C Sharma & Co, Knife Works, 5E, Chandia Buildings, P O Mendu, Via Hathras  
 Shaw & Company, Meerut City  
 Swadeshi Vastu Kariyalaya, Hathras

#### CYCLE & CYCLE ACCESSORIES DEALERS.

##### AJMER-MERWARA.

Shanker Lal & Son, Kaisaiganj, Ajmer

##### BENGAL

Dutta Brothers & Co, Sadaighat, Chittagong

##### BIHAR

Chakravarti & Co, Hazaribagh  
 Friends & Co, P O Rusera, Dabhanga  
 Hero Cycle Stores, Main Rd, Ranchi

Hindusthan Bicycle Manufacturing & Industrial Corpn Ltd, Phulwari Shariff, Patna  
 Kedia Cycle Stores, Main Road, Ranchi  
 Khana & Co, Sitamarhi, Muzaffarpur  
 Lahiri & Co, Near Station, Patna  
 N B Sharma & Co, Monghyr  
 National Trading Co, Opp Medical Hospital, Bankipore, Patna  
 Patna Cycle Works, Patna

Prepare famous confections of Bengal with hints from BENGAL SWEETS. Re. 1/12. INDUSTRY BOOK DEPT., Shambazar, Calcutta.

Provincial Cycle Co, Sarayagunj,  
Muzaffarpur.

Ranchi Cycle & Gramophone Co.,  
Main Road, Ranchi

### BOMBAY CITY.

Bombay Cycle & Motor Agency,  
Ltd., 534, Sandhurst Bridge,  
Chowpatty, Bombay.

British Cycle Co, Kalbadevi Rd.,  
Bombay

Chhotey Lal Nanak Chand, 177,  
Princess St., Bombay

Gujarat Cycle & Motor Co Bhang-  
wadi, Kalbadevi Road, Bombay

Kathiawan Cycle & Motor Co,  
Khatau Bldg, 12, Jambulwadi  
East, Bombay

N D Patel & Co, 180-82, Prin-  
cess Street, Bombay

**Oriental Import & Export  
Agency,** 52, Shrikrishna  
Nivas, New Silk Bazar, Kalba-  
devi Road, Bombay

Phirozsha & Sons, 347, Kalbadevi  
Road, Bombay

Rapid Cycle & Motor Co, Ltd  
Post Box No 2086, Kalbadevi  
Road, Bombay 2

Wellington Cycle & Motor Co,  
313, Hornby Road, Bombay

### BOMBAY PRESIDENCY.

Jamdade & Co, 423, Budhwai  
Peth, Poona No 2

Laxman Balvant & Co, Budhwar  
Peth, Poona 2

### CALCUTTA.

Bentinck Cycle Co, 1-2, Chow-  
ringhee Road East, Calcutta

Bharat Cycle Stores, 53 Bentinck  
Street, Calcutta

Bimal Bros, 1-B, Chowringhee,  
Calcutta

Butish & Continental Agency, 40,  
Strand Road, Calcutta

Central India Machine Co, 155,  
Dharamtola St, Calcutta

Cornwallis Cycle & Electric  
Stores, 15, Ghose Lane, Cal

Crescent Cycle & Motor Co  
158-C, Dhurumtolla St, Cal

Cycle Traders Emporium, 173-1,  
Dharamtala St Calcutta

D Das & Bros, 61 Bentinck St.,  
Calcutta

Globe Cycle & Motor Co, 33,  
Dhurumtolla Str., Calcutta.

**H. D. Nundy & Co.,** 50-6,  
Dhurumtolla Street, Calcutta.  
(Stockists, Importers & Manu-  
facturers of Cycles & Acces-  
sories)

Hashabi & Co, 295, Bow Bazar  
Street, Calcutta.

Joseph Herberts & Co., 61, Ben-  
tinck St., Calcutta

Jupiter Cycle Co, 68, Harrison  
Road, Calcutta.

Malik & Co, 10, Bentinck St.,  
Calcutta.

N Choudgar & Co, 2, Lal Bazar  
Street, Calcutta

N D Kundoo & Co, 31, Dharam-  
tola Street, Calcutta

National Cycle & Motor Co,  
79-26-1A, Lower Circular Road,  
Calcutta

Nibaran Chandia Seth & Co, 59,  
Bentinck St., Calcutta.

Pioneer Cycle Co, 60, Bentinck  
Street, Calcutta.

Universal Electric & Cycle Co,  
23F, Russa Road, Calcutta

### GENERAL PROVINCES.

Badri Prashad Agarwal, Kathi,  
Jubbulpore

Bombay Cycle Stores Mahal,  
Nagpur

C P Cycle Stores, Waraseoni,  
C P

C P. Cycle Stores, Sadar Bazar,  
Raipur, C P.

Central India Machine Co, Omti  
Bridge, Jubbulpore

Deshmukh Cycle Stores, Pan  
Hati, Drug

Jubilee Cycle Stores, Khoja  
Mahal, Gondia

Kajuram, Chota Bazar, Ellich-  
pur Camp, Amraoti

Narayan Prashad Sunder Lal,  
Kathi, Jubbulpore.

New Cycle Stores, Malguzarpura,  
Waidha

Onkar Jodharaj, Chota Bazar,  
Ellichpur Camp, Amraoti

P C. Trilok Chand, Jail Road,  
Nagpur

P M Shah & Co, Bazar, Akola

Prepare famous confections of Bengal with hints from **BENGAL SWEETS.** Re. 1/12. **INDUSTRY BOOK DEPT.,** Shambazar, Calcutta:

Rajasthan Cycle Stores, Malguza-  
ripura, Wardha  
S R Shastrakar, Jetpura, Chan-  
da, C P.  
Taj Cycle Works, Bhusari Gate,  
Amraoti

**DELHI.**

Kalaso & Co, Chandni Chowk,  
Delhi  
New Delhi Cycle Mart, Connaught  
Place, N Delhi  
Northern India Cycle Agency,  
Chandni Chowk, Delhi  
P D. Kalaso & Co, Delhi  
Trident Cycle Manufacturing Co,  
Ltd, Chandni Chowk, Delhi

**INDIAN STATES.**

A T Ram & Sons, Mysore  
Abbasally Adamjee, Bhora Bazar,  
Neemuch Camp, Gwalior  
Abdul Ganai & Co, Girdikot, Jodhpur  
Ahmed Valli Mahomed, Sadar  
Bazar, Rajkot C S Kathiawar.  
B Sukan & Co, Sojati Gate,  
Jodhpur  
Bangalore Motor & Cycle Co,  
Bridge Road, Bangalore  
Bombay Cycle Trading Co,  
Bangalore City  
Damian & Co, Opp P O, Hyderabad,  
Deccan  
Devi Dass Topen Das, Bhabian  
Bazar, Bahawalpur  
Giriraj Pershad, Near Post Office,  
Bharatpur State  
Gulam Ally Sultan Ally, Maha-  
rani Road, Indore City  
H Harakchand Bapna & Co,  
Avenue Rd, Kolai, Mysore  
Haji Shk Kaïm Luckman, Fort  
Road, Rewa  
Har Nath Ramnath, Sojati Gate,  
Jodhpur.  
Madras Cycle and Motor Mart,  
31, James Street, Secunderabad,  
Deccan.  
Mahomedalli Allibhai & Sons,  
Rajkot Pura, Kathiawar  
National Cycle Stores, Bazaria,  
Kotah June  
New Age Cycle Agency, Siyaganj,  
Maharani Road, Indore City  
R B Awasthi & Bios, Satna,  
Rewa State

Rahmat-Ullah, Dalladi Gate, Na-  
bha

Raja Cycle & Motor Works, Sri-  
Narashimharaja Road, Banga-  
lore City.

Rajputana Cycle Emporium, Johri  
Bazar, Jaipur City

Rajputana Muslim Trading Co,  
Johri Bazar, Jaipur City.

Rasobhbhoj Nazar Ally, Maharani  
Road, Indore City

Sasam Ahmamed Giga, Juna-  
gadh, Kathiawar

Sinha & Sons, 26, Gouri Kund,  
Indore City.

Sivaji Automobile Works, Sree  
Krishna Bldgs, Malleswaram,  
Bangalore.

Travancore Cycle & Motor Co,  
Main Road, Puthanchanthal,  
Trivandrum, Travancore

V M Abdul Latiff & Bios,  
Chikmagalur, Mysore.

**KARACHI.**

Crown Cycle & Motor Co, Garden  
Road, Karachi.

Jankidas & Co, Bunder Road,  
Karachi.

Karachi Cycle & Motor Co, Bun-  
der Road, Karachi

M Navnit Rai & Sons, Bunder  
Road, Karachi

Naraindas & Co, Garden Road,  
Karachi.

Royal Cycle and Motor Co, El-  
phinstone St, Karachi

**LAHORE.**

Hermes & Co, Manjdarya, La-  
hore.

Jankidas & Co, P O Box 135,  
Nila Gumbad, Lahore

**MADRAS CITY.**

British Cycle Trading Co, 10  
Broadway, Madras

Byramshaw & Co, Ltd, Mount  
Road, Madras

English Cycle & Motor Importing  
Co, 9, Broadway, Madras

National Cycle Importing Co,  
7-A, Broadway, G T, Madras

Royal Cycle and Motor Co, 13,  
Broadway, Madras.

Sarada Cycle Stores, 11, Broad-  
way, Madras

Modern Methods of extracting, refining and bleaching of oils are ex-  
plained in "Vegetable Oil Industry." Re. 1/12 Industry Book Dept., Cal.

South India Cycle Importing Co.,  
7B, Broadway, G.T., Madras  
Wellington Cycle Co., 17, Mount  
Road, Madras  
Wilson & Co., 5-8, Jehangir St.,  
Madras

#### MADRAS PRESIDENCY.

City Cycle Co., Maidan Road,  
North Mangalore, S. India  
E. A. Mohammad, Basha Shalb,  
Krishnagiri P. O., Salem Dt.  
E. Modinkhan, Cycle Works, Viza-  
gapatam.  
Govindasami Chettiar, Hodgson-  
pet, Conjeevaram  
Hajee Waduth, Macgregor Street,  
Erode, S. I. Ry.  
Hindustan Trading Co., Ellore.  
K. R. Menon & Sons, The Round  
(South), Trichur, S. I.  
K. V. Naidu & Co., Cantt., Til-  
chinopoly  
K. Khadi, Tindivanam S. A. Dt.  
Krishna Murti Iyer, Town High  
School Rd., Kumbakonam, S. I.  
Kuppusamy Muthu, Cutchery  
Street, Erode.  
M. S. Baig & Co., Pothu, a,  
Varuthota Lane No. 8, Guntur.  
Modern Cycle Co., Negapatam  
Munusami Sah, Hodgsonpet, Con-  
jeeveram  
New Cycle Emporium, 149, Mun-  
ro Street, Anantapur  
Oriental Cycle Mart, Fort,  
Kurnool  
Rudrappa Andann, Devangee  
Sree Anjanava Cycle Shop, Jag-  
gayyapet, Kistna  
Talati Brothers, Basudiwala Tei-  
race, Station Road, Nadiad

#### N. W. F. PROVINCE.

Bundelkhand Cycle & Motor  
Agency, The Mall, Nowshera  
Cantt  
Khyber Cycle Stores, Saddar Rd.,  
Peshawar

#### ORISSA.

A. Ramulu, Mandasa, Ganjam  
Bellana Narayana, Baruva, Gan-  
jam  
Friends Cycle Store, Post Office  
Road, Cuttack  
Hercules Stores, Aska, Ganjam

Peari Cycle Store, Naya Sarak  
Chandni Chowk, Cuttack.  
Ramaparsad, Mandasa, Ganjam  
Sewnarain Nathmal, Marwari  
Bazar, Sambalpur  
Thanduram Rajranglall, Dalai-  
para, Sambalpur

#### PUNJAB.

Asa Ram, Karnal  
Bharat Commercial Co., Massy  
Gate, Rawalpindi Cantt  
Bharat Saddle Traders, Sialkot  
City  
Dharam Chandia Agarwal &  
Bros., Karnal.  
Golden Cycle Works, Adda  
Hoshiarpur, Jullundur City.  
Gopal Das & Bros., Sargodha.  
Karam Chand Setia & Bros.,  
Bahawalnagar, Punjab.  
Kirpa Ram Bios, Rawalpindi  
M. Kolukhan, Rurekhan, Fateha-  
bad, Hissar.  
Mayya Dass Dunga Dass, Saban  
Bazar, Ludhiana.  
Mohd Shafi Ghulam Qadar, Sar-  
godha  
Mughal Cycle Works, Sialkot.  
Prakash Cycle Co., Block No. 3  
Sargodha City.  
Ramji Das & Bros., Jhang Ma-  
ghiana.  
Saddle Traders, Sialkot City, (Cy-  
cle Goods Manufacturers)  
Ukpari Bios, Lyallpur.

#### SIND.

K. M. Tolaram, Hiraabad, Hydera-  
bad, Sind.

#### UNITED PROVINCES.

Alliance Cycle & Motor Co., Mes-  
ton Road, Cawnpore  
Auto Cycle & Electric Co.,  
Khatauli, Muzaffarnagar.  
Badai & Co., Cantt., Fyzabad  
Central India Machine Co., Mes-  
ton Road, Cawnpore.  
Chiman Lal Prem Dayal, P. O.  
Dayalbagh, Agra.  
Colonelganj Cycle & Motor  
Agency, 12, Cawnpore Road,  
Allahabad  
Debi Dayal Panchauri, Etah.  
Dilkusha Cycle & Motor Agency,  
Sadder Bazar, Lucknow

Modern Methods of extracting, refining and bleaching of oils are ex-  
plained in "Vegetable Oil Industry." Re. 1/12. Industry Book Dept., Cal.

Dwivedi & Co, 237-A, Badshahi  
Mandi, Hewett Rd, Allahabad

G N Cycle & Motor Co, Meston  
Road, Cawnpore

Gopal Pershad, Shishambagh,  
Fatehgarh

H Abdul Rauf M Ismail, Mau-  
nath Bhanjan, Azamgarh

H M Shafiq Ellahie, Sadai  
Bazar, Meerut

Jwala Prasad Ram Parkash,  
Mahoba

Kalchaueran Trivedi & Sons, Atia-  
uli P O, Pahoo, Dt Rai Bareilly

Kamta Brothers, Ballia

Khatun Cycle Stores, Shahgamer,  
7, Etawah

Lochan Pershad, Colonelganj,  
Fatehgarh

Midlands Ltd, Meston Road,  
Cawnpore

Mohan Lal, Palla Bazar, Faiz-  
khabad

Mohd Ali, Yusufganj, Aligarh

Mohd Hanif, Najibabad

Oudh Cycle Works, 29, La Touche  
Road, Lucknow

Piabhu Dayal Seth, Ghazipur

Premier Cycle & Motor Agency,  
Kaisabagh, Lucknow

Provincial Cycle & Motor Co, 177,  
Abu Lane, Meerut

Punjab Cycle Works, Aminabad  
Park, Lucknow

Sadhulal Shukla, Mahoba

Shanker Lal & Sons, 50A, Taj  
Road, Agra

Sheosahai Trivedi & Bros, Mes-  
ton Rd, Cawnpore

Shukla Cycle Stores, New City,  
Etawah

Srivastava & Co, 1, Hewett Road,  
Allahabad

### CYCLE & CYCLE ACCESSORIES MANUFACTURERS.

Gopal Cycle Works, Oppanakara  
St, Coimbatore

H D Nundy & Co, 50-6, Dhurum-  
tolla Street, Calcutta

Hindustan Bicycle Manufacturing  
& Industrial Corporation Ltd,  
P O Phulwari Sharif, Patna Dt

India Cycle Ltd, Oriental Bldgs,  
Esplanade Rd, Fort, Bombay

India Cycle Manufacturing Co,  
Ltd, 9, Tiljala Road, Calcutta

Mind Cycles Ltd, Kilachand Dev-  
chand Bldgs, 45-47, Apollo St,  
Fort, Bombay

**N. S. Hukumchand & Co.,**  
Sialkot City

Piem Brass Factory, Karachi  
Punjab National Engineering Co,  
Karachi

Trident Cycle Manufacturing Co,  
Ltd, Opp Imperial Bank  
Chandni Chowk, Delhi

### DAIRY APPLIANCES DEALERS.

Dairy Material Supply Co, Royal  
Bldgs, 95, Janki St, Bombay 3

Delhi Cattle Breeding Farm, Ltd,  
Lawrence Rd, Delhi

Edward Keventer Limited, 11-3,  
Lindsay St, Calcutta

Greaves Cotton & Co, Ltd, 1,  
Forbes St, Fort Bombay, 60,  
Dharamtala St, Calcutta

M S Vernal & Co, Bharat Insur-  
ance Building Central Avenue  
South Calcutta

New-Zealand Import & Export  
Co Sudder St, Calcutta

R N Mehra & Co, Dinapore  
Cantt

S B Dany & Co, Dinapore Cantt,  
Patna

**Small Machineries Mfg Co.,**  
22, R G Kai Road, Shambazar,  
Calcutta (Cream Separator)

Upper India Dairies (Regd), Be-  
gam Bridge, Meerut

Volkart Brothers, 8, Clive Street,  
Calcutta

Western Creameries, Nadiad,  
Bombay (Cream Separators)

### DAIRY PRODUCTS MANUFACTURERS & DEALERS.

#### ASSAM

Shillong Dairy Farm Ltd, Shil-  
long

#### BENGAL.

Rangpur Dairy Farm, Rangpur

**BENGAL SWEETS** supplies directions for the preparations of all varie-  
ties of sweetmeats of Bengal Re 1/12. Industry Book Dept, Calcutta.

**BIHAR.**

B K & Brothers, P O Kantaul,  
Darbhanga  
Banga Luxmi Buttef Works,  
P.O. Kantaul, Dist Darbhanga  
Bihari Dairy Farm, Dinapur,  
Khagaul, Patna  
N P Bros & Co. Kantaul, Dar-  
bhanga  
Shahabad Modern Dairy, Araria,  
Shahabad

**BOMBAY CITY.**

Adam M Bharucha, Musa Man-  
sion, Tank Pakhadi St, Bombay  
Adarsh Dugdhalaya, 214, Charni  
Road, Bombay  
Baker's Dairy Farm, Rusikesh  
Bhuvan, Gell St., Jacob Circle,  
Bombay  
Beales Dairy, York House, Opp  
Tianway Depot, Colaba Cause-  
way, Bombay  
Bombay Milk Supply Dairy Co,  
Chira Bazar, Kolbhat Lane,  
Bombay  
Byculla Dairy Farm, Behind Ma-  
tatha Hospital, Sussex Road,  
Parel, Bombay  
Carlisle Dairy Co, 82, Clare Road,  
Byculla, Bombay  
Carter Manufacturing Co. 82,  
Clare Rd, Byculla, Bombay  
Champion Dairy Co, New Petit  
Mansion, Sleater Road, Giant  
Road, Bombay (Butter)  
Continental Creamery & Dairy  
Farm, Opp Pork Market, Dhobi  
Talao, Bombay  
Empress of India Dairy Co,  
Saraswati Bhuvan, 68 Lamington  
Rd, Bombay  
English Dairy Co, Elysium  
Mansion, Walton Rd, Bombay  
Eureka Dairy Products, Purnasho-  
tam Building, New Queen's  
Road, Bombay  
Globe Dairy Co, 315, Giant Rd,  
Bombay 7  
Haji Umerji Han Musa Bharucha,  
near Pathe Cinema, 383, Lam-  
ington Road, Bombay  
Imperial Dairy Co, Opp Masjid,  
Metro Cinema Lane, Bombay

Indian Industrial Dairy Farm,  
Guzdu Park, Thakordwai, Bom-  
bay.

Indo-Colonial Dairy Co, Opposite  
Pathe Cinema, Lamington Road,  
Bombay

Infants & Public Milk Supply  
Co. Ltd, Bombay House, Bruce  
Road, Fort, Bombay

Iqbal Dairy, 272, Nagdevi Street,  
Bombay

Killedar's United Dairies, 139,  
Alvez Baug, Hill Road, Bandia,  
Bombay

Moosa Haji Mahmed Killedar  
Bros, Killedar St, Bombay

Newton Manufacturing Co, Chai-  
ni Rd, Bombay

Parisian Dairy Co, Tamarind  
Lane, Fort, Bombay

Persian Dairy Co, Byculla, Bom-  
bay

Polson Ltd, Lloyd Bldg, Dougall  
Rd, Ballard Estate, Fort, Bom-  
bay

Premier Dairy Co, Lamington  
Rd, Tardeo, Bombay

Stafford & Co, 7, Forjet Hill,  
Bombay

Star of India Dairy Co, Meadows  
St, Fort, Bombay

Victoria Dairy, Prince's Dock,  
Bombay

Wilshie Dairy Farm, Clare Bldg,  
Byculla, Station Rd Jacob Cir-  
cle, Bombay

Wilson Dairy, Co, Balaram St,  
Grand Rd, Bombay

**BOMBAY PRESIDENCY.**

Alliance Dairy Farm, Maneek  
Chowk, Ahmedabad

Calcutta Butter Mfg Co, New  
Sarangpur Gate, Ahmedabad

Doshi Brothers, (Estd 1924),  
Anand

Dudhia Dairy Co, Raipur, Ahme-  
dabad

Dufferin Dairy Farm, Ahmeda-  
bad

Hygiene Dairy Co, Ahmedabad.

Midland Trading Co Chaklasi,  
Kana Di

Mission Dairy Farm, 1341 Saran-  
ghui, Ahmedabad

**BENGAL SWEETS** supplies directions for the preparations of all varie-  
ties of sweetmeats of Bengal - Re 1/12 Industry Book Dept., Calcutta.



Pioneer Dairy Co, Panjara Pole, Ahmedabad  
 Rellance Dairy Farm, Ahmedabad. (Butter)  
 Rose Dairy Farm, 2134, Navi Moholat, Ahmedabad.  
 Searchlight Dairy Farm, Anand  
 Spring Farm Dairy Co, Raipur, Ahmedabad  
 Tribhovan Amtharam, Jalalpoie Road, Navsari, Surat  
 Western Creameries, Nadiad, Bombay Precy (Casein & Glue Powder).

**CALCUTTA.**

Aligarh West End Dairy, E127-128, New Market, Calcutta  
 Bombay Milk Association, 27, Pollock St, Calcutta  
 Calcutta Creamery & Poultry Ltd, 1, Sib Dey Lane, Cal  
 Chanda's Dairy, Lake Road Market, Ballygunge, Calcutta  
 Co-operative Milk Societies Union, 119, Bow Bazar Street, Calcutta  
 Edward Keventer, Ltd, 11-3, Lindsay St, Calcutta  
 Express Dairy Co, Ltd, 13, Old Court House St, Calcutta  
**G. S. Emporium Limited**, 47-A, Chittaranjan Avenue (South), Calcutta (Sole Distributors of "Reliance" Butter)  
 K L Bose & Co, 26, Sita Ram Ghose St., Calcutta  
 Lake Dairy, 1, Parasai Road, (East of Lake Market), Cal  
 Magnolia Dairy Products Ltd., D-2, Hide Rd, Kidderpore, Cal  
 Murshidabad Dairy, 84, Cornwallis Street, Calcutta (Jam, Jelly, Chutney)  
 Neo-Vit Laboratories Ltd, 9B, Shahanagar Rd, Kalighat, Cal  
 Polson Manufacturing Co, 6A, Sudder St, Calcutta  
**Satya Charan Dutt**, 99-3, Canning Street Calcutta (For Condensed Milk)  
 Tithoot Butter Concern, P 221-1, Strand Bank Road, Calcutta  
 West-End Dairy, E-127-128, New Market, Calcutta (Also at Aligarh)

**DELHI.**

Coronation Dairy, Connaught Place, Delhi  
 Dairy Farm, Pinjrapole (Gau-shala) Delhi, Kishanganj, Delhi  
 Excelsior Dairy Co, Old Gurgaon Road, Delhi  
 Express Dairy Farm, Block N, Opp Scindia House, Connaught Place, New Delhi  
 Keventer Agricultural Farm, Kashmere Gate, Delhi  
 Magnolia Dairy Products Ltd, Connaught Place, Delhi  
 Raisina Dairy & Bakery, Round Market, Delhi.  
 Reading Dairy Farm, Fatehpuri, Delhi  
 Simla Dairy Ltd, Connaught Place, New Delhi

**INDIAN STATES.**

Australian Dairy Co, Sayajee Ganj, Baroda  
 Government Rayankere Dairy Farm, Mysore City  
 Haji Wali Noor Mohamed, Kadur, Mysore  
 Palace Dairy Farm, Rayankere, Mysore  
 Prem Dairy Farm, Kotah  
 Raja Ram Dairy Farm, Bilaoli Tank Indore,

**KARACHI.**

T Motandas & Co, Bunder Road, Post Box 25, Karachi

**LAHORE.**

Aligarh Dairy Farm, Municipal Market, The Mall, Lahore  
 Military Dairy Farm, Lahore Cantt

**MADRAS CITY.**

B Venkateswara Rao & Co, 136, Purasawalkam High Road, Madras  
 G R Thiruvengadam Chetty & Co, 38, Andiappa Naick St, Madras  
 Konai Dairy, Wallajah Road, Madras  
 M Sons Dairy & Bakery, Madras  
 Nestle & Anglo-Swiss Condensed Milk, Export Co, Ltd, 11-12, North Beach Road, Madras.

**MADRAS PRESIDENCY.**

Ch Kutumbiah & Bros Veeatan-  
ki Lock, Kistna  
Imperial Dairy Farms, Bangalore,  
Wellington, Nilgiris  
St Joseph's Dairy, Erode

**PUNJAB**

Government Dairy Farm, Rawal-  
pindi  
Military Dairy, Sialkot  
Simla Dairy, Lower Bazai, Simla  
Union Dairy, Lower Bazai, Simla

**UNITED PROVINCES**

Agricultural Dairy, Nawabgunge,  
Cawnpore  
Ambala Dairy Farm, Dehra Dun

Chowkoore Tea Estate & Dairy  
Farm, P O Chowkoore, Almora  
Diamond Dairy Co, Mall Road,  
Lucknow  
Edw Keventer Ltd, Dairy Farm,  
Aligarh  
Indra Dairy (Regd), Meerut  
Military Dairy, Cantt, Cawnpore  
Pioneer Co-operative Milk Union  
Ltd, Civil Lines, Cawnpore  
Prince Butte Dairy, Civil Lines,  
Moradabad  
R E I Dairy, Dayalbagh, Agra  
Ram Dayal Hai Bilas, 133, Katra,  
Allahabad  
Upper India Dairies Regd, Be-  
gam Bridge, Meerut

**DAL MILLS.**

Bansiwala Mills, Ltd, Haines Rd,  
Behind Dhobi Ghat, Mahaluxmi,  
Bombay  
Bengal Dal Mill, 6, Pran Kissen  
Mukherjee Road, Calcutta  
Dungarshi Hunsraj & Co, 202-204,  
Narsi Natha St, Bhat Bazar,  
Bombay  
Hindusthan Dal Mills, Calcutta  
Howrah Dal Mill, 101, Grand  
Trunk Road, Howrah  
Lakhamshi Aijan & Co, 189, Nar-  
shi Natha St, Bhat Bazar,  
Mandvi, Bombay

National Dal Manufacturing Co,  
Jasidih  
Shree Madhav Mills, Ltd, Patna  
Shree Shanker Mills, Buxar,  
Shahabad  
Shree Vishwa Nathji Mills, Kei-  
begahia, Patna  
Sree Krishna Oil, Dal, Chanti &  
Flour Mills, Masaurhi P O,  
Patna  
Sri Mandhai Mills, Buxar,  
Shahabad

**DECORATORS.**

Anand Studio, "A" Noble Cham-  
bers, Parsi Bazai St, Fort,  
Bombay  
Bengal Decorator, 223, Chittaran-  
jan Avenue North, Calcutta.  
Deshpriva Decorator, 159-1A,  
Rash Behari Avenue, Calcutta  
Fancy Decorators, 32C, Halder-  
para Road, Calcutta

Gandhi Decorating Co, 297, Kali-  
ghat Road Calcutta  
Jamshedji F Billimoria & Co,  
290, Sandhuist Road, Khetwadi  
5th Lane, Bombay  
Sinha & Son, P-25, New Jagan-  
nath Ghat Road, Calcutta  
Universal Decorator, 26A, Ran  
Rashmoni Rd, Calcutta

**DENTAL CLINICS.**

A Weldon & Co, 174, Broadway,  
Madras  
American Dental Clinic, Bright-  
lands, Lansdowne Road, Bom-  
bay  
Amkam Dental Clinic, Flat No 1,  
11, Lindsay St, Calcutta

Associated Dental & Medical Sup-  
ply Co, Hotel Majestic Build-  
ing, Calcutta  
Basmall & Co (India), Ltd,  
White House, Castair's Town,  
P O Baidyanath, (Deoghai),  
S P  
Bengal Dental Supply Co, Ltd,  
275-4, Bowbazar St, Calcutta

**Guide to DYEING & CLEANING**—A handbook for amateurs and profes-  
sionals. As 5. INDUSTRY BOOK DEPT., Shambazar, Calcutta

Bole Bros, Princes St, Bombay  
 C R Jayna & Co, Chandni Chowk, Delhi.  
 Carl Doyle & Co, 275-5, Bow-Bazar Street, Calcutta  
 City Dental College & Hospital, 241, Bowbazar St, Calcutta  
 Delhi Dental College & Hospital, Chandni Chowk Fountain, Delhi  
 Dr. Bipin Roy, M B (Gold Medalist), 50, Pataldanga St, Cal  
 Dr D D Watts, FCS, LDS, Mall Road, Cawnpore  
 Dr J R Digwa, Rupai, Ambala  
 Dr Krishan, Solan, Simla  
 Dr Laha & Co, 34-1, College St. Calcutta  
 Dr. M K Bagdiya & Son, 79, Siyaganj, Indore  
 Dr. Mohd Akhter, Seoo Bazar, Laikana.  
 Dr N V Eapen, Kairur, (SIRy)  
 Dr P K Banerjee & Dr S K. Banerjee, D36-4, Godhowha, Benares City  
 Dr R C Jwan, Connaught Circus, New Delhi  
 Drs Ashby & Co, 14, College St. Calcutta  
 G K Sawday, E D F, (Paris) 31, Galastaun Mansion, Park St. Calcutta.  
 Gupta Dental & Optical Mnfg Co, Etawah, UP  
 K Bhattacharjee, D E V, 11, Esplanade East, Calcutta

Kaye and White Co., 45, National Congress Road, Karachi.  
 Laha & Sons, 52, College St, Cal  
 M Ahmed, BA, DDS, 183, Dhuramtolla St., Calcutta  
 M L Dass & Sons 21, College Street, Calcutta  
 Metropolitan Dental Co, 2, Surin Banerjee Road, Calcutta  
 Mukherjee Brotheis Drs, Bedi Ghat, Mirzapur, UP  
 Narendra Ch. Baiory, Bharat Bhawan, Chittaranjan Avenue, Calcutta  
 Original Dr Shah's Dental Hall, 407, Centre Street, Poona Camp  
 Patel & Sons, Narasinha Raja Road, Bangalore  
 Pengoria Dental & Optical Co., Agia  
 Popular Pharmacy Ltd, 167, Russa Road, Calcutta  
 R Ahmed, DDS, FICD, 12-1, Esplanade East, Calcutta  
 S B Swan & Co, 1, Wellington St., Cal.  
 Scientific Dental Clinic, 542, Hirjeebhoy Seth Building, Cheera Bazar, Bombay 2  
 Smith Bros, Ltd, 9, Chowringhee Road Calcutta  
 Taylor & Jennings, 39, Chowringhee, Calcutta

### DENTISTS' MATERIAL DEALERS.

Associated Dental & Medical Supply Co., Hotel Majestic Bldg, Dharamtola, Calcutta  
 Atlas Dental Supply, Co, Karmon Deorhi, Amritsar  
 Bengal Dental Supply Co Ltd., 275 4, Bowbazar St, Calcutta  
 Dental & Medical Supply Co, 239, China Bazar Road, Madras

Dental Goods Supply Co., Langa Mandi, Lahore  
 Modern Dental & Medical Depot, 51, Central Avenue, Calcutta  
 Patel & Sons, Narsimharaja Road, Bangalore City, Bianches.- Bombay, Karachi

### DIAMOND & PRECIOUS STONES MERCHANTS.

Aideshu Jamshedji Khan & Co, Elphinstone Street, Karachi  
 B B Balaram, 187-189, Mumbadevi Road, Bombay 2  
 Bapalal & Co, Ramakoti Bldgs, Rattan Bazar Road, Madras  
 Barlas Bros, Subzi Mandi, Delhi

Chimanlal Kothari & Co, 191, China Bazar Rd, Madras  
 Dalchharam Nanchand & Co, 7, Dhanji St, Bombay  
 Gem Company, Great Eastern Hotel Arcade, Old Court House Street, Calcutta

Pyrotechnic Matches & Their Preparation are dealt in "Safety Matches & Their Manufacture." Rs. 3/-. Industry Book Dept., Calcutta.

H B Shah, 123-125, Mumbadevi Road, Bombay 3

Hamilton & Co, Ltd, 8, Old Court House Street Calcutta

J Boseck & Co, Ltd, 155, Chowringee, Calcutta

K R Purushothamdas, 72, Mint Street, Park Town, Madras

Kanayalal Ishvarlal & Co, 235, Govindappa Naick Street, G T, Madras

M Lalaiam & Co, A4, New Market, Calcutta

Ratilal Vadilal, 113, Mint Street, Sowcarpet, Madras

Surajmal, 313, Esplanade, Madras

T Balakrishna Mehta & Sons, 453, Mint Street, Madras

Thakorlal Hiralal & Co, 9, Dalhousie Square, Calcutta

## DISINFECTANT & INSECTICIDE MANUFACTURERS.

### BENGAL.

British Standard Disinfecting Mfg, Co, 6, Kedar Mukherjee Lane, Howrah

John Paterson & Co (India), Ltd, Clensel Works, Foreshore Rd, Shibpu., Howrah

### BIHAR.

Mahesa & Sons, Sujaganj, Bhagalpur City

South Behar Sugar Mills Ltd Bihta, E I Ry

### BOMBAY

A H Nasei & Co, 89, Princes St., Bombay 2, Also 6, Mangoe Lane, Calcutta

Chlorogen Co, Peerbhoy Bldg, No 1, Princess St, Bombay 2

Shree Krishna Industrial Works, Opp Cinema Novelty, Grant Road, Bombay

Standard Chemical & Pharmaceutical Co, Atlas Mills, Reay Road, Bombay 10

Turner & Co, 4, Rose Cottage Lane, Mazagaon, Bombay

Twener & Co, Mazagaon, Bombay

### BOMBAY PRESIDENCY

Institute of Home Industries, Malasamudra Rd, Gadag City

### CALCUTTA.

Alipore Chemical Works, 25, Belvedere Road, Alipore, Calcutta

Basack & Sons, 29, Madan Mitter Lane, Calcutta

**Biswa Pharmacy**, 21-2 Beadon St, Calcutta (Manufacturers of 'Double Peacock Brand' Phenyle —A Unique Disinfectant)

Calcutta Paint, Colour & Varnish Works, 14, Kaibantapara Lane, Calcutta

D C M Products Ltd, 9, Convent Road, Entally, Calcutta

D Waldie & Co, Ltd, A-1, Chre Bldgs, Calcutta

Eastern Chemical Works, 25, Rani Branch Rd, Cossipore, Cal



**DOUBLE PEACOCK BRAND**

# PHENYLE

A UNIQUE DISINFECTANT

**BISWA PHARMACY,**

21-2, Beadon Street, Calcutta

'Phone B B 735

General Export Co, 1, British Indian St, Calcutta  
 Health Protection Society, 80, Garpai Rd, Cal (Pastilles)  
 Ideal Chemical Works, 199, Muk-taram Babu St, Calcutta.  
 Ivan Jones Ltd., Pollock House, 23, Pollock Street, Calcutta  
 J & R. Hutchison Ltd, 19, Dum Dum Road, Calcutta.  
 Kwong Lee Long & Co, 6, Tiretta Bazar St, Cal (Agts for Chinese pastilles).  
 L P Winley & Co, (England), Ltd, 7, Council House St, Cal  
 Lister Antiseptics & Dressing Co, (1928), Ltd, 12, Uma Kanta Sen St, Cossipore, Calcutta  
 Morris Butler & Co, 12, Dal-housie Square, Calcutta  
 Ram Krishna Ch Works, 79-4-2D, Raja Naba Kissen St Calcutta  
 Sarkar Gupta & Co, Ltd, (National Laboratories Ltd), 18, Dum Dum Road Calcutta  
 Shalimar Tar Products Ltd. 6, Lyons Range, Calcutta  
 Standard Paint Works 44 Beadon Row, Calcutta

**CENTRAL PROVINCES.**

Feroze Industrial Home Sitabal-di, Nagpur

**DELHI.**

A W Cretol Mfg Co, Kandla  
 Kashan St, Fatehpuri, Delhi  
 S P Khanna & Co, 1698, Peeppa Mahadeo Street, Delhi

**DISTILLERIES & BREWERIES.**

A N Malik Son, P O Solon Brewery, Simla Hills  
 Amritsar Distillery Co. Ltd, Amritsar  
 Asansol Distillery, Asansol, E I R  
 Bengal Distilleries Co, Ltd, Kon-nagar.  
 Cawnpore Distillery, Copper-gunge, Cawnpore  
 Central Distillery, Narayanguda, Hyderabad City  
 Central Distillery & Chemical Works Ltd Meerut  
 Coimbatore Distillery, Coimba-tore

**INDIAN STATES.**

L Sukh Dev Uppal & Sons, Jam mu, (Kashmir)  
 Sharika Industrial Works, (Regd), Jammu (Kashmir).

**LAHORE.**

Sir Daya Kishan Kaul & Sons, 29, Lawrence Rd, Lahore

**MADRAS.**

Alkali & Chemical Works, Ltd, Cochian Basin Road, (Old Washeimanpet) Madras  
 L Dwarkadas & Co, 24, Samudra Mudali St, P T, Madras.  
 South Indian Products Ltd, Myla-pore, Madras

**PUNJAB.**

Bhagwan Das Sud & Sons, Bhag-wandas Buildings, Bhagwandas Road, Hoshiarpur  
 Shambhu Nath & Sons, Ltd. Amritsar.

**UNITED PROVINCES.**

Cawnpore Chemical Works, Ltd, Anwargunge, Cawnpore  
 Gurukul Chemical Industiles. P O Gurukul, Kangri, (Hard-war), Sanaranpuri Dt  
 Hindu Chemicals, Ltd, Rail Bazar, Cawnpore  
 Luna Chemical Industries Ltd. Kamacha, Benares (Sweeper & Cobra Brand Phenyle & Toilets).  
 Metaul & Co. Bareilly  
 P Cool & Co, 141, Naka Hendola, Lucknow

For experimented formulas for damp proofing matches consult **SAFETY MATCHES AND THEIR MANUFACTURE.** Rs. 3. Industry, Calcutta.

Government Distillery, Mandya, Mysore  
 Indian Distillery, Anwarganj, Cawnpore  
 Karnal Distillery Co., Ltd., Karnal  
 Khanchand Bhawanamal & Co., Max Denso Hall, Bunder Rd., Karachi  
 Lalpur Distillery, Ranchi  
 Lucknow Distillery, Shah-ji-kabagh, Lucknow  
 M L Narayana Swamy's Arrack Distillery, Tadpatri, Anantapur  
 Mankatha Distillery, Mankatha, Monghyr  
 Manpur Distillery, Manpur P.O., Buniadgunj, Gaya Dt  
 Murree Brewery Co., Ltd., Rawalpindi

Mysore Govt Cential Distillery, Bangalore  
 Narayan & Co, Muzaffarpur  
 Punjab Sugar Works & Patent Carbonic Gas Co, Ltd, P.O. Sujampur, Gurdaspur, Punjab  
 Russa Distillery, Tollygunge, Cal.  
 Scotia Distillers Ltd, 6, Lyons Range, Calcutta.  
 T Motandas & Co, Bunder Road, Post Box 25, Karachi  
 United Breweries Ltd, Daie House, Madras  
 United Breweries, Ltd, Rose & Crown Breweries, Kaity, Nilgiris, Sydney Rd, Bangalore  
 Vizagapatam Distillery, Vizagapatam

### DRAPERS & OUTFITTERS.

(See under Tailors & Outfitters).

### DRAWING & SURVEYING INSTRUMENT DEALERS.

B I E Store, 11, Dalhousie Sq East, Calcutta  
 Bharat Drawing & Stationery Store, Anarkali Bazar, Lahore  
 Binode & Co, 13, Dalhousie Sq East, Mission Row, Calcutta  
 Butta Kristo Neogi & Co, 14-2, Old China Bazar St, Cal  
 Gargya & Co, 139C, New Mandi, Muzaffarpur, U.P.  
 Hyderabad Engineering House, Post Box 111, Gun Foundry, Hyderabad, Deccan  
 Indian Industries, Dharampura, Lahore  
 J Sur & Co, 3, Dalhousie Sq East, Calcutta  
 J V Navlakhi & Co, Kalbadevi Road, Bombay

Jion & Co, 63A, Radhabazar St., Calcutta  
 K B Nath & Bros, Sialkot  
 Koh-i-Noor Stores, University Square, P.O. Lanka Benares  
 Lawrence & Mayo (India) Ltd, 11, Government Place East, Cal  
 National Emporium, Roorkee B.P.O. Lanka, Benares.  
 Nilmoney Halder & Co, 11, Chittaranjan Avenue Calcutta  
 Pearl & Co, 11, Dalhousie Sq. East, Calcutta  
 Peary Mohan Soor & Co, 11, Dalhousie Sq East, Calcutta  
 Queen Stationery Stores, 63E, Radha Bazar St., Calcutta  
 Ruth & Co, 11, Dalhousie Sq East, Calcutta

### DRUM & BARREL DEALERS.

A S Yoosuf, Dhorajiwala, Corner of Tarwadi, Mazagaon Rd Bombay  
 Crown Bucket Factory, 222, Nagdevi Street, Bombay  
 Fazalbhoy Nathoo, 1, Dockyard Road, Mazagaon, Bombay  
 Habib & Co, Old Anjurwadi Champsai Bhimji Road, Mazagaon, Bombay

Habib Dada, Essack Bldg, 135, Jambli Moholla, Bombay  
 Hasambhoy Jetha, Opp Goods Depot, Parel Road, Byculla Bombay  
 Holloware Manufacturing Syndicate, Old Atlas Mill Compound, Reay Road Bombay.  
 Imperial Drums Factory, Old Boyce Flour Mills, Grant Road Corner, Bombay

For experimented formulas for darning proofing matches consult **SAFETY MATCHES AND THEIR MANUFACTURE** "Rs 3. Industry, Calcutta

**DUPLICATOR MANUFACTURERS.**

- |  |   |
|--|---|
| <p>A Baihos &amp; Co, P6, Mission Row Extension, Calcutta (Office Equipments).</p> <p>Blackwood Bryson &amp; Co, Ltd, 2, Mangoe Lane, Calcutta</p> <p>Byramshaw &amp; Co, Ltd, Mount Road, Madras</p> <p>Duplicator Mfg Co, Lala Lajpat-<br/>rai Road, Bana-ka-phatak, Be-<br/>nares</p> <p>G Shaima 50, Shubtala Street, Calcutta</p> | <p>H Kay &amp; Co, Karnal, Punjab</p> <p>J J Shah &amp; Sons, 354, Kalbadevi Kalyan Bhuvan, Bombay</p> <p>Kapuri Duplicator Mfg Co, Banska Phatak, Benares</p> <p>Kishore Brothers, Karnal</p> <p>Oriental Techno-Chemical Labora-<br/>tory, Borivli, Bombay Subur-<br/>ban</p> <p>Roneo Ltd, 9, Mission Row, Cal</p> <p>Selarka Brothers, P O Box No<br/>262A, 58, Goa St., Fort, Bombay</p> |
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**DYE MERCHANTS.****AJMER & MERWARA**

Chippa Fatehmohmed Akbar,  
Balotia, Marwar

**BOMBAY CITY.**

Adamjee Bhajjee Rangwalla, 396,  
Katha Bazar, Bombay

American Colour & Chemical Co,  
Yusuf Building, Church Gate  
Street, Fort, Bombay

B Shrivchand Amritlal & Co, Ltd,  
11, Spratt Rd, Ballard Estate,  
Bombay

Bharat Chemicals Co, 331, Samuel  
St, Vadgadi, Bombay

Bhavanidas Gangadas & Co,  
233-35, Samuel Street, Vadgadi,  
Bombay

Capco, Limited, "Shale" Building,  
Bank Street, P O Bag No 1039,  
Bombay 1 Calcutta Office —9,  
Clive St, P O Box 2301, Cal

Chhimanlal Mulji & Co, 67, Mudi  
Bazar, Mandvi, Bombay

Dolatram Kashiram & Co, Khan  
Mohamed Kassambhai Bldg,  
Takurdwar Road, Bombay 2

E Coferji & Co, 410, Bawla  
Bldg, Kala Chowki, Bombay

Electro Engineering Co, Old Gun  
Carriage Factory, Colaba, Bom

Esoofalli Akbaralli Rangwala &  
Co, 312, Samuel St, Vadgadi,  
Bombay

Esufali Sarafali Rungwala, 253,  
Vadgadi, Mandvi, Bombay

Excel Trading Corporation, Kas-  
turchand Mills Estate, Dadai,  
Bombay.

Gurdit Singh Gulab Singh & Co,  
Vadgadi, Bombay

Ishwailal Ganpatiam Gajjar, 15D,  
Carmichael Rd, Opp Pedder  
Road, Bombay

Khushalchand J Shah, Gopal  
House, 7-11, Khumbharwada  
Cross Lane, Vadgadi, Mandvi,  
Bombay

Manilal Mooljee Rangwalla,  
Samuel St, Vadgadi, Bombay

National Aniline & Chemical Co,  
(U S A), Patel House, Church-  
gate St, Fort, Bombay

P D Pavesker & Co, 74, Main  
Road, Dadai, Bombay

S K Kabbui Ltd, Industrial In-  
surance Bldg, Opp Church-  
gate Stn, Fort, Bombay

Shoorji Vallabhdas Colour Co,  
Vadgadi, Bombay

Vasant Vijay Mill, 243, Woll  
Road, Bombay

**BOMBAY PRESIDENCY.**

Ahmedabad Colour Co, Astodia  
Chakla, Ahmedabad

Jivali Alibhai, Kapad Bazar,  
Viamgam, Ahmedabad

Narandas Bhavani & Co, Gadhsir-  
sa, (Cutch)

Narandas Prem Chand, Kapad  
Bazar, Viamgam, Ahmedabad

Ramanlal, Madhavilal & Co, Asto-  
dia Road, Ahmedabad

S K Ranade & Co, Shanti Nivas,  
Kulla, (Bombay)

Satyendra Prasad & Co, Astodia  
Road, Ahmedabad

Shankar Pandharinath Bhagwai,  
Sukrawarpeth, Sholapur

**CALCUTTA.**

Bengal Dyestuffs Syndicate,  
9, Armenian Street, Calcutta

Capco Limited, 9, Clive Street,  
P O Box 2301, Calcutta B —  
"Shale" Building, Bank Street,  
Post Bag No 1039, Bombay 1.  
Champalal Agarwalla, 45, Arme-  
nian Street, Calcutta  
Colours & Chemicals, 8-1, Gurudas  
Dutt Garden Ln, Ultadanga, Cal  
Dye Products Co., 19, Strand Rd.,  
Calcutta

East India Colour Co., 34, Arme-  
nian Street, Calcutta  
Fatehchand Hinalal, 2-2B, Arme-  
nian Street, Calcutta  
Fatehchand Kaluliam, 2-1, Arme-  
nian Street, Calcutta  
Fazle Hussain & Bros, 44, Arme-  
nian Street, Calcutta  
Hansraj Vishram & Co., 2A,  
Armenian St., Calcutta  
Imperial Chemical Industries  
(India), Ltd, 18, Strand Road,  
Calcutta  
Nairandas Pramananddas, 37, Ar-  
menian Street, Calcutta  
Partabmull Gobindiam, 119, Khen-  
grapatty St., Calcutta  
Udayachand Sukhlal, 1, Armenian  
Street, Calcutta  
United Brothers, 34, Armenian  
Street, Calcutta

**DELHI**

Ambaprasad Jadavjee & Co.,  
Tobacco Katia, Delhi  
Bhagwan Lal & Co., Tobacco  
Katia Delhi.  
Bhagwanlal Tejaji, Katia Ishwai  
Bhawan, Delhi  
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Naik, Benares City

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Ranjit Dyeing & Bleaching Works, 1, Stark Rd, Lalooah.

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Backbay Cleaners, Moti Mahal, Church Gate, Reclamation, Bombay  
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Bombay Union Dye Works, Govt Gate Road, Parel, Bombay  
Brandon & Co, Ltd, 2nd Pasta Lane, Colaba, Bombay  
Cutch Dyeing & Bleaching Works, 90, Champa Lane, Mulji Jetha Market, Bombay  
Dyeing & Bleaching Mills, Doulat-ram Mochandas, Mogal Lane, Upper Mahim, Bombay  
E D Sasoon Turkey Red Dye Works, Mahim, Bombay  
Eclipse Dry Cleaning Co, Ritz Bldg, Colaba Causeway, Bom-bay  
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Eve Fabrics Ltd, Cadell Road, Mahim, Bombay  
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Jamnadas Dyeing & Bleaching Mills, Globe Mills Lane, DeLisle Road, Bombay

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Bengal Steam Laundry Co, Ltd 20, Park St, Ballygunge, Cal  
Bradford Dyers' Association Ltd, 4, Fanne Place, Calcutta  
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Calcutta Dyeing & Cleaning Co, 21-3, Chowringhee Rd, Calcutta  
Calcutta Shawl Repairing Co, 63-2, Minzapuri St, Calcutta  
Diamond Dyeing & Cleaning Works, 20, Buraia 1st Lane, Dum Dum, Calcutta  
East India Dyeing & Cleaning Co, 3-2B, College St, Calcutta  
Great Shanghai Dyers & Cleaners Co, 16, Theatre Rd, Calcutta  
Lindsay Dyeing & Cleaning Co, 21, Chowringhee, Calcutta  
London Cleaners & Dyeis, 28, Lindsay Street, Calcutta  
Paricchad Ranjani, 17-1, Chutar-para Lane, Calcutta  
Radhakanto Dass & Jatindia Kumari Dass, 178, Cross Street, Calcutta.  
Scientific Dyeing & Cleaning Co, 23, Free School St, Calcutta

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Spencer's Steam Laundry, Mount Road, Madras

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Electric Fan & Motor Manufacturing Co Ltd, Lahore Factory—Shahdara

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Patna Electric Co, Gaidih  
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Co, 32, Ezra St, Calcutta

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Road, Calcutta

Calcutta Ignition Co, 153,  
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B Janki Shai, 3, Kali Devi St,  
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Gur Prasad & Bros, Colonel-  
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hat  
Shillong Hydro-Electric Ltd,  
Shillong  
Sylhet Electric Supply Ltd, Syl-  
het

#### BALUCHISTAN.

Quetta Electric Supply Co, Birla  
Road, Quetta

#### BENGAL.

Asansole Electric Supply Co, Ltd,  
Asansole Office 11, British  
Indian Street, Calcutta  
Barrackpore Electric Supply Co,  
Ltd, Barrackpore H O 1,  
Fairlie Place, Calcutta  
Berhampore Electric Supply Co,  
Ltd, Chandpur (Tippera)  
Chittagong Engineering & Elec-  
tric Supply Co, Ltd, Serajgunj,  
(Pabna)  
Comilla Electric Supply Ltd,  
Comilla  
Dacca Electric Supply & Co, Ltd,  
Abdul Gani Rd, Ramna, Dacca  
Deoria Electric Supply Co, Ltd,  
Deoria H O 5, Royal Ex-  
change Place, Calcutta  
Dishergarh Power Supply Co,  
Ltd, Chinaculi, Asansol  
Electric Supply Co, of Burdwan  
Ltd, Burdwan Office Me-  
cantile Buildings, (Room No  
9R), 3rd Floor, 9B, Lall Bazar,  
Calcutta

Gompeorie Electric Supply Co Ltd  
Power Station, Naihati, E B Ry.  
Jalpaiguri Electric Supply Co,  
Ltd, Jalpaiguri H O 2,  
Church Lane, Calcutta  
Kurseong Hydro-electric Supply  
Co, Ltd, Kurseong  
Mymensingh Electric Supply Co,  
Mymensingh  
Pabna Electric Supply Co,  
Pabna  
Rangpur Electric Supply Co,  
Rangpur  
Riverside (Bhatpara) Electric  
Supply Ltd, Kankinaia, E B R

#### BIHAR.

Airah Electric Supply Co, Ltd,  
Ailah, Shahabad  
Bhagalpur Electric Supply Co,  
Bhagalpur  
Patna Electric Supply Co, Ltd,  
Patna  
Ranchi Electric Supply Co,  
Ranchi  
Santhal Paiganas Electric Supply  
Corporation Ltd, Bono Villa,  
Baidyanath Dham, Deoghar  
Sijua (Jharia) Electric Supply  
Co Ltd, Sijua

#### BOMBAY CITY

Bassein Electric Supply Co Ltd,  
Mehta House, Apollo St, Fort,  
Bombay  
Bombay Electric Supply & Tram-  
ways Co, Ltd, Electric House,  
Fort, Bombay  
Bombay Suburban Electric Supply  
Ltd, 45, Turner Road, Bandia,  
Bombay  
Precision Machine Tool Agencies,  
Warden House, Sir P Mehta  
Road, Fort, Bombay Br —  
Ahmedabad

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fashionable garments Rs. 3/8. Industry Book Dept., Shambazar, Cal



Tata Hydro-Electric Power Supply Co, Ltd, H O 24, Bruce Street, Fort, Bombay.

#### **BOMBAY PRESIDENCY.**

Ahmedabad Electric Co, Ltd, Ahmedabad

Amalgamated Electricity Co (Belgaum) Ltd, Belgaum Office — Nanji Building, Elphinstone Circle, Fort, Bombay

Ahmednagar Electric Supply Co, Ltd, Ahmednagar Office —19, Champa Gali, Bombay

Dharwar Electric Supply Co Ltd, Dharwar

Electric Power Supply Co, Desai Road, Billimora, Surat

Hubli Electricity Co, Hubli

Navsari Electric Supply Co. Ltd., Navsari, B B & C I Railway Tele Add —Adimodi, Factory —Dudhia Talao, Navsari

Panchgani Electric Supply Co, Ltd, Tamboowalla Bldgs, 96, Upper Duncan Road, Byculla Bombay

Poona Electric Supply Co, Ltd, Poona

Surat Electric Co, Ltd, Surat  
Thana Electric Supply Co, Ltd, 46, Station Rd, Thana

#### **CALCUTTA.**

Calcutta Electric Supply Corporation Ltd, Victoria House, Chowringhee Sq, Calcutta  
Santi-Niketan, Elec Supply Co Ltd, P 311, Southern Avenue, Calcutta

#### **CENTRAL INDIA**

Central India Electric Supply Co, Ltd, Office —31, Lawrence Road, Lahore

Jaora Electric Supply, Jaora, C I

#### **CENTRAL PROVINCES.**

Chanda Electric Supply Co, Ltd, Bombay House, 24, Bruce Road, Fort, Bombay

Jubbulpore Electric Supply Co, Ltd, Jubbulpore

Nagpur Electric Light & Power Co, Ltd, Nagpur

Saugor Electricity Supply Co, Ltd, Saugor

Yeotmal Electric Supply Co, Yeotmal

#### **DELHI.**

Delhi Central Electric Power Authority Ltd, Delhi Gate Power House, 22, Dayaganj, Delhi.

Electric Supply & Traction Co., Ltd, Imperial Bank Bldg, Chandni Chowk, Delhi.

#### **INDIAN STATES.**

Amalner Electric Supply Co Ltd, Amalner Office Bombay House, 24, Bruce St, Fort, Bombay

Bangalore Power & Lighting Station, Bangalore City

Cochin Power & Light Corpn Ltd, Tripunithura, Cochin State.

Coorg Elec Supply Cor Ltd, Coorg

Gwalior Electric Supply Co, Moti-mahal, Lashkar, Gwalior

Indore Electric Supply, Indore

Lathi Electric Power Supply Company, Lathi, Kathiawar

Navsari Electric Supply Co Ltd, Navsari, Baroda State

Trivandrum Electric Supply, Trivandrum, Travancore

#### **KARACHI.**

Karachi Electric Supply Corporation Ltd, Karachi

Tando Adam-Shahdadpur Electric Supply Co Ltd, Queen's Road, Karachi

#### **LAHORE.**

Ambala Electric Supply Co Ltd, 3, Cooper Road, Lahore

Lahore Electric Supply Co Ltd, Bhaiat Bldgs, Lahore

#### **MADRAS CITY.**

Madras Electric Supply Co Ltd, Rundall's Road, Madras

#### **MADRAS PRESIDENCY**

Andhra Valley Power-Supply Co, Ltd, Tata Hydro-Electric Agencies Ltd, Bombay House, 24, Bruce Street, Fort, Bombay.

Carnatic Electric Supply Corporation Ltd, Office —533B, Second Lane Beach, Madras

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Chicacole Electric Supply Corporation Ltd, Chicacole  
 East Tanjore Electric Supply Corporation, Ltd, Tanjore  
 Gudivada Electric Supply Corporation Ltd, Gudivada, Kistna  
 Nellore Power & Light, Ltd, Nellore  
 South Indian Electric Corporation Ltd. Office —59-A, Second Lane Beach, Madras  
 South Madras Electric Supply Corporation Ltd, Tiruvarur, Tanjore Dt  
 Tinnevely Tuticorin Electric Supply Co Ltd, Tuticorin  
 Udipi Electric Supply Corporation Ltd, Udipi  
 Vellore Electric Corporation Ltd, Vellore M/A Chandrie & Co, Ltd, Madras  
 Vizagapatam Electric Supply Corporation Ltd, Vizagapatam

**ORISSA**

Cuttack Electric Supply Co Ltd  
 Cuttack

**PUNJAB.**

Karnal Electric Supply Co, Karnal  
 Multan Electric Supply Co, Ltd, Napier Road, Multan Cantt  
 Murree Electric Supply Co, Ltd, Murree  
 Okara Electric Supply Co, Ltd, 14, Beadon Road, Lahore  
 Peshawar Electric Supply Co, Ltd, Bhaiat Bldgs, Lahore  
 Rawalpindi Electric Power Co, Ltd, Electricity Bldgs, Mayo Road, Rawalpindi

Saigodha Electric Supply Co, 3, Temple Road, Lahore  
 Sialkot Electric Supply Co, Ltd, Sialkot City

**SIND.**

Dadu Elec Supply Co Ltd, Dadu  
 Larkana Electric Supply Co Ltd, Bhaiat Bldgs, Lahore  
 Mirpur Khas Electric Supply Corporation Ltd, Mirpur

**UNITED PROVINCES.**

Agia Electric Supply Co, Ltd, Agra  
 Bareilly Electricity Supply Co, Ltd, Barreilly  
 Benares Electric Light & Power Co, Ltd, Benares  
 Bhaiat Electric Supply Co, Fatehgarh  
 Budaun Electric Generating Co, Ltd, Budaun  
 Cawnpore Electric Supply Corporation Ltd, "Sutherland House" Cawnpore  
 Gorakhpur Electric Supply Co, Ltd, Gorakhpur  
 Hydro Electric Power Station, Aligarh  
 Jhansi Electric Supply Co Ltd, Gwalior Road, Jhansi  
 U P Electric Supply Co, Ltd, U P M/A Martin & Co, 12, Mission Row, Calcutta  
 Upper Ganges Valley Electric Supply Co, Ltd, M/A Martin & Co, 12, Mission Row, Cal  
 Upper Jumna Valley Electricity Supply Co, Ltd, M/A Martin & Co, 12, Mission Row, Cal

**ELECTRIC WELDING EQUIPMENT DEALERS.**

Alfred Herbert (India), Ltd, 13-3, Strand Road, Calcutta  
 Associated Electrical Industries (India), Ltd, 6, Mission Row, Calcutta

Electro Engineering Co, Old Gun Carriage Factory, Colaba, Bombay

**ELECTRICAL ENGINEERS.**

A C E C India Ltd, Mubarak Manzil, Apollo Street, Bombay  
 A E G Electric Co, Savoy Chambers, 5, Wallace St, Fort, Bombay

Allied Engineers (Electricals), 55, Cornwallis St, Calcutta

Asia Engineering & Industries Co, Ltd, 11, Ezra St, Calcutta

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- Associated Electrical Industries (India) Ltd, Nicol Road, Vulcan House, Ballard Estate, Bombay.
- Bhagwan Singh & Sons, Connaught Place, New Delhi
- Britannia Engineering & Electric Co, 43, Creek Row, Calcutta
- Commercial Electrical Works, Chandni Chowk, Delhi
- D G. Pandit & Co, Birbhangar Building, 77-A, 2nd Bhatwadi, Girgaum, Bombay
- Damania Electrical Engineering Works, Joosab Peermahomed Building, 171, Lohar St, Bombay.
- Dastur & Sons, 52, Forbes St, Fort, Bombay
- Daubke Bros. Richard Building, 11-13, Elphinstone Circle, Fort, Bombay.
- Delhi Electric Engineering Works, Chawli Bazar, Delhi
- Dua & Co. Dua Buildings, Montgomery.
- Eastern Electric & Engineering Co, 25, Chowringhee Road, Cal
- Economic Engineering Co, 85, Bowbazar Street, Calcutta
- Electric Noble Works, Rustom Building, 27, Church Gate St, Fort, Bombay
- Electrical Engineers, Bhagavati & Co, Whiteaway Building, Hornby Road, Bombay
- Electro Engineering Co, Old Gun Carriage Factory, Colaba, Bombay
- Electro Merchants Ltd, Mehta House, Apollo Street, Fort, Bombay
- Greaves Cotton & Crompton Parkinson Ltd, 4, Mission Row Extension, Calcutta
- Indian Electric Works, 81, Beadon Road, Lahore
- K. M Pillai, Cave Street, Nagercoil, Travancore State.
- L Vishnu Chandia Consul, Lad-pura Street, Kotah, Raj
- Lighting Electric & Engineering Co, 23, Wellesley St, Cal
- Lucknow Engineering & Electric Works, Hazratganj, Lucknow
- Lunar Engineering Works, 84A, Chive Street, Calcutta
- Motor Electric Works, K K Rd, Kottayam, Travancore
- National Motor Works, Banerji-pet, Ellore
- P C Mitra & Co, 2, British Indian Street, Calcutta
- Pioneer Engineering Co, 158, Dhurumtolla St, Calcutta
- Precision Machine Tool Agencies, Warden House, Sir P Mehta Road, Fort, Bombay B1 — Ahmedabad
- R D Swamy & Co. Hodgsonpet, Conjeevaram, S I
- Radiant Electric & Machinery Co, Reid Road, Ahmedabad
- Sind Auto Engineering Co, Near Plaza Cinema, Bunder Road, Karachi
- Sri Sri Ramkrishna Engineering Co 261, China Bazar Road, Madras

## ELECTROPLATERS & GILDERS.

### AJMER.

Rajputana Electroplating Works, Kutchery Road, Ajmer

### BOMBAY.

Bhawanidas Gopaldas & Sons, 450, Kalbadevi, Elephant Bldg, Bombay 2

G A Mithawker & Co, Jehangir Wada Building, 30, Bruce St, Fort, Bombay

Kohnnoor Electro Guilders, Khetwadi 10th Lane, Bombay 4

Saif Electro-plating & Brass Works, 37, Love Lane, Mazagaon, Bombay

Saifee Electro Plating Works, 139, Bhendi Bazar, Bombay.

### BOMBAY PRESIDENCY.

B S Khot's Electroplating Works, 275, Rawlwaripeth, Poona

Saifi Electro Plating Works, Main Street, Poona

### CALCUTTA.

American Electroplating Works, 86-18, 19, Wellesley Street, Cal-

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Calcutta Plating & Eng Co, 12/1B, Lindsay St, Calcutta  
 Caledonian Plating & Engineering Works, 158, Dharamtolla St, Cal  
 Economic Electro Plating Works, 10, Free School St, Calcutta  
 Electroplating Laboratory, 28, Clive Street, Calcutta  
 French Motor Car Co, Ltd, 234-3, Lower Circular Rd, Calcutta  
 Hamilton & Co, Ltd, 8 Old Court House St, Calcutta  
 Hiralal Nandlal Khettiy, 140, Ashutosh Mukherjee Road, Bhowanipore, Calcutta  
 India Metal Works, 2 Townshend Rd, Bhowanipuri, Cal  
 M Badruddin & Sons, 25-1, Free School St, Corner of Lindsay Street, Calcutta  
 Sen Gupta Electroplating Works, 84, Dharamtala St, Calcutta  
 Standard Electroplating Works, 115-A-B, Dharamtolla St, Cal  
 Tincowrie & Brother, 27, Free School St, Calcutta

**DELHI**

Best Electroplating Works, Bazar Sita Ram, Delhi  
 Electro Plating House, Kashmere Gate, Delhi

J C Parikh & Co, 10-F, Connaught Place, Delhi  
 New Fancy Electroplating Works, Kamra Zenith Mahal, Lal Kuan, Delhi  
 Oriental Mfg, Co, Delhi

**INDIAN STATES.**

Mulki Chrome Plating Works, Kingsway, Secunderabad, Deccan  
 S Patel & Co, Soniwado, Patan, N G  
 West Coast Electroplating Co, Ltd, 52, Chittur Road, Ernakulam, Cochin

**KARACHI.**

Baboo Dhondt & Co, Garden Road, Karachi  
 Pandurang K Parab & Co, Napier Road, Karachi

**LAHORE.**

Indian Electric Works, 81, Beadon Road, Lahore

**UNITED PROVINCES**

Dasamal Sohanlal, Moradabad  
 Muthra Dutt & Co, Lucknow  
 Punjab Electroplating & General Metal Works, 69-B, New Mandi, Muzaffarnagar

**EMBROIDERY DEALERS & MANUFACTURERS.**

Brahma Embroidery House, 12, Bahu Muzapore Rd, Calcutta  
 Chellaram Gnanchand, 86, Wallajah Road, Chellaram Building, Madras (Manufacturers of Artistic Madras Embroidery, Carpets and Druggists) Branch — 45, Rattan Bazaar, Madras  
 Chhotalal Maneckchand Jainwala, Purshotam Nivas, Dodydeth Agiary Lane, Bombay  
 Eastern Embroidery Works, 61-L, Kalighat Road Calcutta  
 G Mostafa, D8, 9, 10 and 12, Municipal Market, Calcutta.  
 Indian Lace & Embroidery Works Kucha-Seth, Dariba Kalan, Delhi

Jamnadas Jekisondas Jainwala, Laxmikant Bhuvan, 31d Bhowada Bhuleshwari, Bombay  
 Khaliq Sheikh & Sons, Nawa Bazar, Srinagar  
 Lala Musadilal Jotiprasad Jain, Lakmidas Khimji Market, 36 Vithalwadi, Bombay  
 "Malavalan" Emporium, High Road, Trichur  
 New Embroidery Works, 185, Canning Street, Lucknow  
 New India Embroidery Mills Chheharta, Amritsar  
 Peary Lal Amichand Jain, Fatehpur, Delhi  
 S Noor Elahi & Co, 50, Khengia-patty St, Calcutta

**EMERY CLOTH MANUFACTURERS.**

(See under Abrasive Dealers).

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**ENAMEL WORKS.**

Amritsar Enamelling Works, Inside Hall Gate, Amritsar

Bengal Enamel Works, Ltd., Palta, E B Ry

Bhagwandas Hassomal Suthra Lane, Hyderabad, Sind

Delhi Enamel Works, Ltd., Sadar Bazar, Delhi

India Enamel & Pottery Works, Ltd., Park Mansions, Delhi Gate, Delhi

Indian Enamel Works, Rahman Bldgs., Church Gate Street, Bombay

Kotkar Enamel Works, Arthur Rd., North Lamington Road, Bombay

Madras Enamel Works, Ltd., 65, Sydenham Road, Madras

Sui Enamel & Stamping Works, Ltd., 9, Middle Road, Entally, Calcutta

U P Enamel Works, Cawnpore

**ENAMELWARE DEALERS.**

A M Dadabhoy, 55-7, Canning Street, Calcutta B1 —Kutab Road, Sadar Bazar, Delhi (Glass, Porcelain)

Baban Enamel Works, Behampura, Baroda

Biswanath Dutt & Co., 203 Old China Bazar St., Calcutta

Durlav Chandra Mozoomder, 28-17, Old China Bazar St., Calcutta

Dutt & Co., 28-2, Old China Bazar Street, Calcutta

Gobindhan Prasad, Punani Bazar, Muzaffarpur

Gunwant Aluminium Depot, Big Bazar, Coimbatore

**India Enamel Works,** Bazar, Ferozepore City

Liladhar D Thakkar, 166, Harrison Road, Calcutta

M B Kotkar Bros, North Lamington Rd., Bombay

Raj-Behari & Bros., Manak Chawk, Aligarh, U P

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**AJMER-MERWARA.**

Bhanwar Lal Bhatnagar, Near  
Post Office, Gulabpura, Merwar

**ASSAM.**

N I B Bhogal (Regd.), P O Dig-  
boi, Assam

**BENGAL.**

H K Banerjee & Sons (Estd  
1895), H O Narayanganj  
India Machinery Co Ltd, Dass-  
nagar, Howrah M/A—Dass  
Brothers  
National Bolts & Rivets, Ltd,  
233, Bellihos Road, Howrah

**BIHAR**

A Sharma & Co, Exhibition Rd,  
Patna (Sanitary Engineers)  
B S Randhava, 10, Broad, Jam-  
shedpur, Via Tatanagar, B N  
Railway

**BOMBAY.**

All India Construction Co, Ltd,  
Construction House, Ballard  
Estate, Bombay  
Apollo Engineering Co, 84, Apollo  
Street, Fort, Bombay  
Aideshu Iron & Brass Works,  
Opp Chota Kabrastan, 3rd  
Kharwa Lane, Bombay  
B Bhicajee & Co, 76, Old Cust-  
om House Rd, Fort, Bombay  
Babubhai B Gandhi 323A, Vin-  
cent Road, Parel, Bombay  
Birmingham Iron & Steel Co,  
Gordhandas Mansion, Sopari  
Baug Road, Parel Bombay  
Boving & Co, Ltd, Vulcan House,  
Nicol Road Bombay  
Braithwaite & Co (India) Ltd,  
Muland Works, Bombay  
Central Maintenance Company,  
Podai Chambers, 109, Parsee  
Bazar Street, Bombay  
Copper Connell & Clifford, Lal  
Chumney, Lamington Road,  
Bombay  
Dinshaw Master & Co, Ltd, 13,  
Huzaria St., Near Mastan Tank,  
J J Hospital, Bombay

Economic Electric Co, Kaieem  
Manzil, Jail Road, Dongri, Bom-  
bay

Empress Welding & Repairing  
Works, 128, Trimbak Parashram  
St, Golpitha, Bombay

Esufally Adamji & Co, 134, Nag-  
devi Street, Bombay 3

Garlick & Co, Haines Road,  
Jacob Circle, Bombay Bianch  
—Ahmedabad

Hindustan Construction Co, Ltd,  
Ballard Estate, Bombay A-3,  
Clive Bldgs, 8, Clive St, Cal-  
cutta, McLeod Rd, Karachi

J N Dubashi, Maher Villa, 631A,  
Paisi Colony, Dadar, Bombay

Mawson Vernon Construction  
Co, Vulcan House, Nicol Rd,  
Bombay

Pallonjee Eduljee & Son, New  
Charni Rd, Gurgaon, Bombay

Premier Construction Co, Ltd,  
Phoenix Bldg, Ballard Estate,  
Bombay

Railway & Marine Equipment Co  
Buona Casa, Sri Phirozeshah  
Mehta Road, Fort, Bombay

S D Marker & Co, 381, Hornb-  
Road, Fort, Bombay

S D Piabhavalkar, 17, Elphin-  
stone Circle, Fort, Bombay

Tara Singh Dalip Singh Katwal,  
68, Mulji House, Cadell Road,  
Dadar, Bombay 14

United Engineering Corporation,  
5, Queen's Rd, Bombay 4 B  
—29, Dalhousie Square (West),  
Cal & 311, Main St, Poona  
(Camp)

Vithal Purushotum & Son, 2nd  
Khetwadi Lane, Bombay 4

**BOMBAY PRESIDENCY.**

Atmaram M Gajjar, Astodia Rd,  
Ahmedabad

H M Pancholy & Co, Saraswati  
Nivas, Ellise Bridge, Ahmeda-  
bad

Jagjivandas V Kansara, Station  
Road, Billimora, Surat

Jayems Engineering Co, Lal  
Darwaja, Ahmedabad

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Peth, Poona City.

V F. Hansrajaga, Nanpura Bazar,  
Surat.

Vuendia & Co, Dalal Building,  
Maninagai, Ahmedabad

### CALCUTTA.

Allied Engineers, 55, Cornwallis  
Street, Calcutta (Electrical).

Amalgamated Engineers, 56, Ba-  
kul Bagan Rd, Calcutta

Assam Engineers & Traders,  
1/1A, Fern Road, West Block,  
Calcutta

Associated Engineering Industries,  
P149, Janak Road, Calcutta

Associated Engineers Ltd, 14,  
Clive St, Calcutta

Bail Engineering Works, 21,  
Paisee Church St, Cal Fac-  
tory:—55/58, Ezra St, Calcutta.

Britannia Building & Iron Co,  
Ltd, Central Bank Bldgs, 100,  
Clive Street, Calcutta

Calcutta United Engineers Ltd,  
10, British Indian St, Calcutta

Cleveland Bridge & Construction  
Co, Ltd, 47, Strand Rd, Cal-  
cutta

J B Norton & Sons Ltd, 1 & 2,  
Old Court House St, Cal

Jas Alexander & Co, Ltd, 15,  
Watgunge St, Kidderpore, Cal

Kamala Engineering Works, 14,  
Halshi Bagan Road, Calcutta

Machine Tools (India), Ltd,  
Shephen House, Dalhousie Sq,  
Calcutta Branch —Bombay

N Bysack, 4-B, Sri Hanum Go-  
enka St., Calcutta

P P De & Co, 13C, Fordyce  
Lane, Calcutta

S C Mukherjee & Sons, 185, Sib-  
pur Road, Calcutta

S K Chakravarty, Ltd, 1/1A,  
Mission Row, Cal (Sanitary)

T N Banerjee Ltd, 6, Hastings  
St, Calcutta Store Yard —

31-1, Tilhalla Road Calcutta

### CENTRAL INDIA.

R G De Chowdhury, Madho-  
nagai, Ujjain

### CENTRAL PROVINCES.

Kanhua, Tilak Ground, Motor  
Stand, Chanda

### DELHI.

Construction Co India Ltd, 26,  
Barakhamba Rd, Delhi

Khaitan Gupta & Co, 112, Darya  
Gunj, Delhi

### INDIAN STATES

Abdul Ghani Sandh, Nizamabad,  
N G S Rly

D R Vadgama, M A A (London),  
Veyppura, Gondal, Kathiawar

K R Chait & Co, Hyderabad,  
Deccan

Patny & Co Ltd, Oxford Street,  
Kingsway, Secunderabad, Dec-  
can

**Suleman Adam,** Mechanical  
Engineer, C/o Bantva Ice Fac-  
tory, Bantva, Dist (Kathiawar),  
J. S Ry

Tawi Works, Secretariat Road,  
Jammu, Kashmir

### LAHORE.

F D Latif & Co, Mochi Gate,  
Lahore

R C Batia, Badami Bagh, La-  
hore

Reliable Water Supply Service of  
India Ltd, Sanda Road, Lahore

### MADRAS.

Crompton Engineering Co (Mad-  
ras), Ltd, 17-18, Broadway,  
Madras

McKenzies Ltd, Buimah-Shell  
Bldgs, Esplanade, Madras

Mechelec Engineering Co, Ltd,  
Banga Vihar, 15, Mowbray's  
Rd, Alwarpet, Madras

### MADRAS PRESIDENCY

G V. Raghava Rao, Bezwada

R V B Chaudary, Brahmanako-  
dui, Via-Ponnur, Bapatla Tq  
Guntur Dt

Standard Construction Co Ltd,  
Bezwada

### N. W. F. PROVINCES

B R Bhatia, L M & L E Kot-  
najibhulla, Hazara

Jann Brothers, Gandivara Street,  
Peshawar

### PUNJAB.

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Civil Hospital, Jhang

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WROUGHT & CAST IRON RAILINGS  
FENCING MATERIALS  
LINE SHAFT FITTINGS  
TEA GARDEN REPAIRS  
CRYSTALLIZERS  
VACUUM PANS  
EVAPORATORS  
SCREW CONVEYORS  
SEED MIXERS  
MEGMA MIXERS  
GAS SCRUBBERS  
SULPHUR FURNACES  
IRON & GUN METAL CASTINGS  
ELECTRIC & OXY-ACETYLENE WELDING



Om Prakash Sharma, A M E T.,  
75B, Sadai Bazar, Jhansi Cantt  
R D Dusajee F F A S, A M S E,  
etc, 1332, Wattgunj, Ludhiana  
S Balwinder Singh & Sons,  
Abohar, (Punjab).

# **RAJPUTANA.**

Industrial Engineering & Radio  
Company, Sirohi, (Rajputana).

# **SIND.**

R. M Desai, Tando Adam, Sind

## **ENGINEERING WORKS.**

### **ASSAM.**

Assam Engineering Works, Gau-  
hati (Tea Garden requisites)  
Excelsior Engineering Works Ltd,  
Mallogiam, Silchar, Cachar.

### **BENGAL.**

**Bantra Engineering Works, 233,**  
Belihos Road, Howrah Prop —  
D K Das & Co Ltd,  
**Britannia Engineering Works,**  
34, Haoganj Rd, Howrah  
**C G Engineering Works, 233,**  
Belihos Rd, Howrah  
**Central Engineering Works, 3,**  
Dharamtolla Rd, Howrah  
**Chittagong Eng & Electric**  
**Supply Co, Ltd, Chittagong**  
**D K Das & Co, Ltd, 233, Bel-**  
**ihos Rd, Howrah**  
**Dutton Engineering Corporation**  
**Ltd, 5, Mohendia Chandia Gar-**  
**den Road, Sinthi, Dum Dum,**  
**24-Paigs**  
**East India Iron Works, Ltd,**  
**Chittagong**  
**Economic Eng Works, Feringhee**  
**Bazar Road, Chittagong**  
**Fakirchand Das Mistry & Sons,**  
**143-144, Belihos Rd, Howrah**  
**G T R Company Ltd, 37, Dum-**  
**Dum Road, Dum Dum**  
**General Engineering Co, Mac-**  
**kenzie Road, Daljeeling**  
**General Engineering Works, 223,**  
**Khurut Rd, Howrah**  
**Howrah Technical Works, Mecha-**  
**nical Engineers & Brass Foun-**  
**ders, 63 Joynaiam Babu's**  
**Lane, Howrah**  
**India Machinery Co Ltd, Dass-**  
**nagai Howrah M/Agents —**  
**Dass Brothers**  
**Lillooah Iron Works, Lillooah**  
**Nandy's Engineering Works, 139,**  
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### **National Bolts & Rivets Ltd.,**

233, Belihos Road, Howrah  
Mg Agents —Dass Bros & Co,  
Works —44, Madhusudhan Pal  
Choudhury Lane, Howrah  
(Phone How 333)

**Pals Engineering Works Ltd., 39,**  
**Kala Chand Nandy Lane,**  
**Howrah**

**S. C. Dass & Co, 178, Belihos Rd,**  
**Howrah. Factory —Old Benaies**  
**Road, Belgachia, Howrah**

**S P Guchait & Sons, 2, Madhusu-**  
**dhan Palchoudhury Lane, How-**  
**rah**

**Sharma Iron Works, Fulbaria**  
**Rd, Ramna, Dacca**

**Sibpur Eng & Housing Co, Hawa-**  
**khan Chamberi, Near Ferry**  
**Ghat, P O Sibpur, Howrah**

**Sulekha Engineering Works, 66A,**  
**Howrah Road, Howrah**

**Union Engineering Co., 19, Rai**  
**Mathura Nath Chowdhury St,**  
**Barnagore, 24-Pargs**

### **BIHAR.**

**Aditya Engineering Works, Gaya**  
**Road, Patna**

**Dhanbad Motor Engineering**  
**Works, Dhanbad**

**Ekra Engineering Works, Bans-**  
**joia P O., Manbhum**

**S Sinha & Sons, Chapia**

**Sharma Engineering Works, Ka-**  
**dankuan Rd, Patna**

**Shree Ram Hari Ram & Bros,**  
**Muzaffarpur**

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**Co (India) Ltd Cox Building,**  
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**Alcock Ashdown & Co, Ltd, 40,**  
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**Works 38, Nesbit Road, Maza-**  
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Central Engineering Co., 125,  
Nagdevi St., Bombay  
City Engineering Works, Vande-  
kai Bldg, Lamington Rd, Bom-  
bay  
Dalal & Mehta, 41, Meadows St.,  
Fort, Bombay

Diamond Engineering Co, Devka-  
ran Mansion, Princess St, Bom-  
bay

Duncan Statton & Company, 5,  
Bank St, Fort Bombay

Eastern Electric & Engineering  
Co., 129, Mahatma Gandhi Rd,  
Fort, Bombay

Electro Engineering Co, Old Gun  
Carriage Factory, Colaba,  
Bombay

General Engineering Corporation  
Ltd, 91, Apollo Street, Fort,  
Bombay

H I Dixon & Co, Ltd, Azram  
Bldg, Ballard Estate, Bombay

Industrial Engineering Co, 45-47,  
Apollo Street, Fort, Bombay

Jost's Engineering Co, Ltd, Hai-  
rawala Bldg, Whittet Rd, Bal-  
lard Estate, Bombay

Malik Electric Works, Victoria  
Rd, Bombay 10

Marker Goldsteane & Co, Ismail  
Bldg, 391, Hornby Road, Fort,  
Bombay

Modern Mechanical & Marine  
Works, 93, Churchbander Road  
Bombay

Oriental Engineering Co, 25, For-  
bes St, Fort, Bombay

Richardson & Ciuddas, 633,  
Parel Rd, Bombay

Shaparia Iron & Steel Works,  
Ltd, Opp Venus Cinema, Parel  
Cross Lane, Bombay

Stanley Works, Taj Building,  
Hornby Road, Fort, Bombay

Turner Hoare & Co, Ltd, Apollo  
Bunder Bombay Branch —35,  
Empress Road, Lahore

United Engineering Corporation,  
1 2 & 11 Tamarind Lane,  
Fort Bombay

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Bharat Mechanical Workshop,  
Station Road, Navsari, Surat  
K R. Sathe & Sons, 817, Sada-  
shiv Peth, Poona 2  
Mistry & Gajjar (India) Ltd,  
Kapasra Bazar, Railwaypura  
Post, Ahmedabad

### CALCUTTA

A. & J Main & Co, Ltd, 10,  
Clive Street, Calcutta

All India Spring Manufacturing  
Co., (Original Firm), 1, Old Kan-  
sari Patty, (Off 69, Clive St.),  
Calcutta Phone Cal 2517. Tele-  
grams —"Springshop"

Andrew Yule & Co, Ltd, 8, Clive  
Row, Calcutta

Annapurna Metal Works, 3, Ashu  
Biswas Rd, Calcutta Factory—  
Bondel Road, Rly Crossing,  
Calcutta

Asiatic Engineering Co, 84-A,  
Clive Street, Calcutta

Asiatic Manufacturing Co, 84A,  
Clive St Calcutta Works —  
Behlhos Road, Howrah

Auroa Engineering Co, 71-D,  
Clive Street, Calcutta

B S & Co, 84-A, Clive Street,  
Calcutta

Ballygunge Engineering Works,  
33-1-1, Kankulia Road, Bally-  
gunge, Calcutta

Baril Engineering Works, 21, Pai-  
see Church St, Calcutta

Beadon Engineering Co, 2, Clive  
Ghat Street, Calcutta

Bengal Eng Co, 7-1, Old Post  
Office St, Calcutta

Bharat Engineering Co, Bharat  
Bhawan 3 Chittaranjan Ave-  
nue, Calcutta

Bharat Steel & Engineering Co,  
Ltd, 106, Dharamtalla St, Cal

Bhartiya Engineering Works,  
370 Upper Chitpui Road, Cal-  
cutta (Telephone —BB 4945  
Telegram —"Chamfered" Cal-  
cutta) H O Shahibganj Bihar.

Bridge & Roof Co (India), Ltd,  
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Butannia Engineering Co, Ltd,  
McLeod House, Calcutta

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Burn & Co., 12, Mission Row, Calcutta. Works Howrah

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Calcutta Spring Mfg Co, 84-A, Clive Street, Calcutta (All sorts of Springs)

Carters Engineering Works, 4, Canal St, Entally, Calcutta

City Engineering Co, 77-3, Clive Street, Calcutta

Civil & Sanitary Engineering Co, Ltd, 11, Convent Rd, Calcutta

Dhai & Mondal Brothers, 77, Dharamtalla St, Calcutta

Diana Engineering Works, 101-1, Ultadanga Main Rd, Calcutta

Dum Dum Engineering Works, 15, Mohendia Bose Lane, Shambazar, Calcutta Factory—91, Jessoie Road, Dum Dum

Dutt Engineering & Mfg Works, 42-1-2, Muralipokei Rd, Manicktola, Calcutta

East Bengal Engineering Works, Cossipore, Calcutta

Eastern Electric Co 41 & 44, Dharamtolla Street, Calcutta Br—138-1, Cornwallis St, Cal

Eastern Engineering & Trading Co, 54, Ezra St, Calcutta

Economic Engineering Works, 12-B, Lindsay St, Calcutta

Entally Economic Engineering Works, 94B, Dr Suresh Sarkar Road, Calcutta

Frank Engineering Co, 78, Clive Street, Calcutta

Ganges Engineering Co., 84A, Clive Street, Calcutta

Harima Engineering Works, 69-1, Belgachia Road, Calcutta

### Heroes Engineering Works.

Paul Street, Shambazar, Calcutta Phone BB 6177 Manufacturers Lathes, Lathe Chucks, Drilling Machines, Printing Machinery, Soap, Lozenge and Bis-cut Making Machinery, Tools & Fittings etc

Howell Engineering Works, Ltd, 23, Middle Road, Entally, Cal

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Jessop & Co, Ltd, 93, Clive St, Calcutta

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Kumardhubi Engineering Works, Ltd, Chartered Bank Bldgs, Calcutta. Works Kumardhubi

Luna Engineering Works, Room A-112, 84A, Clive St, Calcutta Marshall, Sons & Co (India), Ltd, 99, Clive St, Calcutta

Martin & Co, 12, Mission Row, Calcutta

Maya Engineering Works, 36-A, Russa Road, Kalighat P O, Calcutta Factory—Rai Bahadur Road, Behala, Calcutta

Metropolitan Engineering Co 156, Rash Behari Avenue, Cal

Middleton Engineering Co, 58-A, Free School Street, Calcutta

Nadia Engineering Co, 79, Lower Circular Rd, Calcutta

Oriental Spring Manufacturing Co., 8, Sil Lane, P O Tangia, Calcutta Phone Cal 3987

Parry's Engineering Ltd, 19, British Indian Street, Calcutta

Pateison Engineering Co (India) Ltd, 10, Clive Street, Calcutta

Poit Engineering Works Ltd, 8, Clive Row, Calcutta

Premier Engineering Company, 1-A, Ashutosh Mukherjee Rd, Calcutta

Satal Engineering Works, 16, British Indian Street, Cal

Spring & Machinery Co, 30, Clive Street, Calcutta Factory—226, Belihos Road Howrah Phone Cal 1237 'Mfg of Spring & any Machine Part

Standard Engineering Works, 7, Wellington Sq, Calcutta

**The Sphere of Tea: An exposition of the Cultivation, Manufacture and Trade of Tea in India. Rs. 3. Industry Book Dept, Shambazar, Calcutta**

Swami & Co, 40-1, Strand Road, Cal (Springs, Washers & Link Chains)

**T. E. Thomson & Co. Ltd.,**  
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Factory Di Satya Road, Kidderpore

Viswa Karma Ltd, 45, Dharamtalla St., Calcutta (Bakelite & Sheet Metal Moulds)

Vulcan Engineering Works 287, Diamond Harbour Road, Behala, Calcutta

Western Oxy-Acetylene Electric Welding Co, 235-4, Lower Circular Road, Calcutta

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Agricultural Engineering Co, Delhi

Champion Electrical Engineering Works, Chandni Chowk, Delhi

Gwalior & Northern India Transport Co, Ltd, Scindia House, New Delhi

Himalaya Works, Chauri Bazar, Delhi

John Tinson & Co Ltd, Post Box 37, New Delhi

R Wright & Partners Ltd, 19, Aurangzeb Road, New Delhi

Sharma Mechanical & Electrical Works, Nai Sarak, Delhi

Sikand & Co, Kashmiri Gate, Delhi & New Delhi (Motor Engineers)

T N Swami & Co, 90, Connaught Circus, New Delhi

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Baroda Bolt & Engineering Co, Goya Gate, Baroda

Deccan Engineering & Refrigeration Co, Kingsway, Secunderabad, Deccan

Hyderabad Engineering House, Gun Foundry, Hyderabad

K Thomas & Sons, Pallam P O, Travancore State.

**Khoday Engineering Works,**  
38, Santhusapet, Bangalore City (Manufacturers of textile machinery spares etc.)

Mysoor Engineering Co, Sri Narsinhari Rd, Bangalore City  
Rajputana Industrial Cottage, Chandpole Bazar, Jaipur City  
Ranade Brothers, Arsikere, Mysore.

Sayani Iron Works, Venuram's Vada, Baroda

Steel Construction Co Ltd, Shankarapuram, Bangalore City.

#### KARACHI.

B R Heiman & Mohatta Ltd, Vulcan Iron Works, McLeod Road, Karachi

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Godok Bros & Co, Biandeth Road, Lahore

H L Suri & Co, 4, Lower Mall, Lahore

Mahabir Theatre, Circular Road, Lahore

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Crompton Engineering Co, (Madras), Ltd, 1st Lane Beach, G T, Madras

Massey Engineering Works, Rayapuram, Madras

Raval & Co, 8, 2nd Lane Beach, Madras

Richardson and Cruddas, 1st Lane Beach, Madras

Standard Engineering Works, 32, Lang's Garden Road, Komaleswaranpet, Madras

Lang's Garden Road, Komaleswaranpet, Madras

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Andhra Engineering Co, Ltd, Vizagapatam

Biavi Engineering Works, Tuticorin

Canara Public Conveyance Co, Ltd, Kodialbail, Mangalore

Local Fund Engineering Works Shop, Cocanada, Godavari

Radhakrishna Factory, Periyakulam Road, Papanayakanpalayam, Coimbatore

Royal Engineering Works, 219, Main Bazar Road, Saidapet

Vellore, N A

**The Sphere of Tea: An exposition of the Cultivation, Manufacture and Trade of Tea in India.** Rs 3. Industry Book Dept., Shambazar, Calcutta.

United Engineering Co, Great  
Cotton Road, Tuticorin

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B Das, P. O Chandni Chowk,  
Cuttack.

R Karson & Sons, Chaulhaganj,  
Cuttack.

#### PUNJAB.

Goel & Co, Main Rd, Ludhiana

H. C Dhawan & Co, Wazirabad

**India Works**, Wazirabad, (Pun-  
jab)

Kalseys Singh Company, 1, Kal-  
sey Buildings, Amritsar

Multan Engineering Works, Mul-  
tan City.

Satri Engineering Works, Rail-  
way Road, Ferozepore

#### SIND.

Svall Engineering Works, Suk-  
kur, Sind

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Lucknow

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Railway Road, Aligarh

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Calcutta Engraving Works, 21,  
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City Envelope Manufacturing Co,  
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Damodar Envelope Factory, 26,  
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Madras

Basant Lall & Sons, Sudder  
Bazar, Meerut.

Bharat Engineering Co, Bharat,  
Bldg, Kalpi Rd, Cawnpore

Boosteis' Engineering Works,  
Ltd, Cawnpore

Byramji Dhaiamji & Co, The  
Mall, Cawnpore

Canal Foundry Works, Roorkee  
Cawnpore Iron & Steel Works,

Deputy Parao, Cawnpore

Dankaur Engineering Works,  
P O Guukul, Sikandiabad.

Empire Engineering Co, Civil  
Lines, Cawnpore

Golden Engineering Works,  
Bulandshahr

Mehta Engineering Co, Lakshmi  
Buildings, Kalpi Road, Cawn-  
pore

Misra & Co, The Exchange,  
The Mall, Lucknow

Prakash Engineering Works, Ma-  
der Gate, Aligarh

Settle Engineering Works, La  
Touche Rd, Cawnpore

Singh Engineering Works, Grand  
Trunk Road, Cawnpore

United Engineers Ltd, Chandausi,

Calcutta Photo Engraving Co,  
157-B, Dharamtala St, Calcutta

Ray Bros, 78, Harrison Road,  
Calcutta

M Hashim M Yasin, Biabourne  
Court, 1, Chandni Chowk Street,  
Calcutta

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Street, Calcutta

**Standard Envelopes Mfg Co**, 73,  
Baitak Khana Road, Calcutta  
**Standard Stationery Mnfis, Ltd**,  
24, Bagmati Rd, Calcutta  
**Victoria Envelope Mfg Co**, 97,  
Baitakkhana Rd, Calcutta

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316, Abdul Rehman St, Bombay  
**B. C. Patel & Co**, 143, Princess  
Street, Bombay 2  
**Hassanally Kamruddin**, 19, Chhi-  
pichawal, Bombay 2  
**Olpadwalla & Sons**, 168, Bazar  
Gate St, Fort, Bombay

#### **Oriental Import & Export Agency**, 52, Shrikrishna Nivas, New Silk Bazar, Kalbadevi Rd, Bombay (Lemon Grass Oil)

**S Roseh Kianz**, P O Box 385,  
Bombay

**Shah Odhavji Lawji, Vithaldas-  
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Bombay

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Bhattacharjee Lane, Calcutta  
Works address—Post Box  
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**Bengal Trading Agency**, Post Box  
No 7817, Calcutta

**Calcutta Essence & Gas Supply  
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S J Guzdar & Co, 3-2, College Street, Calcutta

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Makkar Pillai, Alwaye, Travancore (Lemon Grass Oil)

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T Motandas & Co, Bunder Rd, P O Box. 25, Karachi.

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Tamarind Lane, Fort, Bombay  
N N Shioff & Co, P44-B Cowas-  
ji Patel St, Fort, Bombay  
Sitaldas Thath Das, 64, Multani's  
Dadi, Walkeshwar Rd, Bombay

**CALCUTTA.**

Noirmans Ross & Co, 8, Clive St,  
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**KARACHI**

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Rehman St, Bombay  
Akbarally Mulla Rassuljee, Ak-  
bar Building 97, Bhusari Mo-  
holla, Bombay  
Excelsior Trading Co, 170, Horn-  
by Road, Bombay B-12,  
Chowringhee Rd, Calcutta  
Hajee Janmahomed Latiff, 299,  
Abdul Rehman St, Bombay 3  
Lalvani Bros, Taj Bldg, Hornby  
Road, Fort, Bombay

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Bazar St, Calcutta  
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Hogg Market Calcutta  
Royal Store, A-24 25, 26 Muni-  
cipal Market, Calcutta

S C Saha & Co, A34 Municipal  
Market, Calcutta

S W Harri Prasad, B-21, 24, New  
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Swadeshi Silpa Factory, 213,  
Cornwallis St, Calcutta

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Novelty Stores, Indore  
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Chemicals Trading Co, 20, Bepin Pal Road, Calcutta

Dawn & Co, (Estd 1906), 11, Portuguese Church Street, Cal (Exporters).

Ewing & Co, Ltd, 4, Clive Row, Calcutta

Imperial Chemical Industries (India) Ltd, 18, Strand Road, Calcutta.

Khaitan Sons & Co, 1, Commercial Buildings, Clive St, Cal

National Mercantile Co, Ltd, 98, Clive Street, Calcutta

Sheoviat & Co, 15 2-B, Harrison Road, Calcutta Also Chowk, Fyzabad, U P

#### INDIAN STATES.

Mysoie Chemicals & Fertilisers Ltd, 1128, Vanivilas Road, Mysoie.

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Combatore Manure Works, Red Fields, Combatore

D Van Betes & Sons, Mission Street Tanjore, S I

Presidency Manure Works, Feroke, Malabar, Ranipet, Arcot

#### UNITED PROVINCES.

Ahmad Hussain Abdul Haq, Qureshi Chobdani Chowk, Mohalla, Lucknow

Sri Govind Oil Mills, Bans Mandi, Cawnpore

### FIBRE MERCHANTS.

Puuna Chandia Dutt & Rajani Kanta Dutta, Dhala, Mymensingh

S O Alaguvel Nadai Bros, Periakadai Street, Tuticorin

### FILTER DEALERS

Candy Filters (India), Ltd, Forbes Bldgs, Home St, Bombay  
Clubwala & Co, 27-29, Hamam St, Fort, Bombay

Marshall Sons & Co (India) Ltd, 99, Clive St, Calcutta

Martin & Co, 12, Mission Row, Calcutta.

Reliable Water Supply Ltd 10, Canning St, Calcutta

S M Dey & Co, 51-50, Strand Road, Calcutta

FOR NEAT PRINTING WRITE TO  
INDUSTRY PRESS, SHAMBAZAR, CALCUTTA.

**FILTER PAPER MANUFACTURERS.**

Research Industries Ltd, 91, Phone Cal 1490  
 Dharamtala St., Calcutta

**FIRE BRICK MANUFACTURERS.****BENGAL**

Bengal Fire Brick Works, Kulti,  
 Burdwan  
 Burn & Co, Lalkoti Silica  
 Works, Raneegeunge, Burdwan  
 Office 12, Mission Row, Cal

**BIHAR.**

Behal Firebricks & Potteries Ltd,  
 P O, Mugma, Manbhum Office  
 P12, Mission Row Extension,  
 Calcutta  
 Gulfihari Fire Brick Works, Gul-  
 fihari, Manbhum

Kumaidhubi Fire Clay & Silica  
 Works, Kumaidhubi, Manbhum

Reliance Fire Brick & Pottery  
 Company, Ltd, Barakai Chaulk,  
 Manbhum Office 8, Clive Row,  
 Calcutta

**BOMBAY CITY**

P B Shah & Co, Lohar Chawl,  
 Bombay, Jhania & 29, Clive St,  
 Calcutta

**CALCUTTA.**

Andrew Yule & Co, Ltd, 8, Clive  
 Row, Calcutta  
 Calcutta Mineral Supply Co, Ltd,  
 31, Jackson Lane, Cal  
 P B Shah & Co, 29, Clive St,  
 Calcutta.  
 S K Sen & Co, 13, Kailas Kaviraj  
 Lane, P O Beadon Street, Cal-  
 cutta Factory —22/1, Ganguli-  
 para Lane, P O Belgachia, Cal

**INDIAN STATES**

Kolar Brick Making Co, Ltd,  
 Manikuppam P 1, Mysore State  
 Mysore Stoneware Pipes & Pot-  
 teries Ltd, Asiatic Bldgs, Ban-  
 galore City

**FIRE EXTINGUISHER DEALERS.**

Bengal Chemical & Pharmaceu-  
 tical Works, 164, Manicktala  
 Main Rd., Calcutta

Minimax Ltd, Mercantile Bldg,  
 Lall Bazar, Calcutta

**FIREWORKS MANUFACTURERS.**

Baba Fire Works, Surat  
 Bonbonniere, P O Box No 10827,  
 Calcutta

Calcutta Fireworks Co, 28, Mon-  
 danga Rd, Bainagore, Cal

Dipali Fire Works, Konnagar,  
 Hooghly

Globe Fire Works, 175B, Upper  
 Circular Rd., Calcutta

Imperial Fireworks, Co, Northern  
 Gate, Jumma Masjid, Delhi

Kaka Fire Works Factory, Kurla  
 Road, Andheri, Bombay

Kishori Lal, Opposite Civil Hos-  
 pital, Jumma Masjid, Delhi

Mohamedbhai Abdulhusein & Co,  
 140-42-44 Jumma Masjid, Bom-  
 bay (Electric Sparkler)

Orient Fire Works, Co, 85-1,  
 Upper Circular Rd., Calcutta

P Dulabhdas & Co, Samuel St,  
 Vadgadi, Bombay

P Koia Joseph, Ennakulam,  
 Cochin

Ram Chand Tara Chand, Jumma  
 Masjid, Delhi

Sharma Chemical Fireworks, Su-  
 kkur, Sind

Sivakasi Kaliswari Colour Match  
 Works Sivakasi Ramnad Dt

Sree Krishna Chemical Fire-  
 works, Bombay Bazar, Karachi  
 (Electric Sparkler)

Vishnu-Brand Fireworks Factory,  
 80, 5th Main Road, Chamaraj-  
 pet, Bangalore City

**FISH MERCHANTS.****ASSAM**

Ghaibhuni Shah, Gauipur,  
 Assam

**BENGAL**

Abbas Haji, Goalundo, Faridpur.

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Adhir Chandia Saikar, Dulpashai, Pabna  
 Balaram Halder, Savarampur, Faridpur  
 Bhatto Ram Das, Pipula Phulchari, Rangpur  
 Bipin Behary Saikar, Babullota, Aikandi, Faridpur  
 Gonesh Chandia Sikdar, Mohanpur, Pabna  
 Gouri Mohon, Kasiah, Maldah  
 Great Bengal Fisheries Ltd, 37, Thatar Bazar, Dacca  
 Hemanta Kumar Saikar, Babullota, Aikandi, Faridpur  
 Jabia Mohamed Dalal, Tista, Rangpur (Dry fish)  
 Manindia Nath Mittee, Siliguri, Darjeeling  
 Netaji Majhi, Chintakhoir, Bhatapoti, Khulna  
 Pacha Mohammed Dalal, Tista, Rangpur (Dry fish)  
 Pulin Chandia Halder, Balia-kandi, Faridpur  
 Radha Nath Halder, Bongaon, Jessore  
 Rajendra Nath Das, Goalundo  
 Rajmohan Das, Pipula Phulchari, Rangpur  
 Sishu Mahalder, Kasiah Malda  
 Sri Chaitan Biswas, Bhangoora, Pathaighata, Pabna

**BIHAR**

Kallyjan Mish, Katihar, Purnea  
 S C Mittee, Katihar Purnea

**BOMBAY**

Abdul Sattar Shaik Mohamed, Sirur, Bombay 15 (Dry Fish)  
 Chandulal Jethalal & Co, Michi Gali, Vadgadi, Bombay

**BOMBAY PRESIDENCY**

Framji Jiwani, Gootu St, Poona  
 Kasamji Musaji Dam, Ghanchiwad, Bulsar, Surat  
 Lallu Pitamber, Ghanchiwad, Bulsar, Surat

**CALCUTTA.**

Sea View Aquarium, 1, Wellington Street, Calcutta.  
 Sunderbuns Fishery & Salt Works Ltd, 86/B, Clive St, Calcutta  
 Wy-Oming Aquarium, 42, Central Avenue South, Calcutta

**INDIAN STATES.**

Karim Kasam, Rajkot Puna Kathiawar  
 V. K Bava & Brother, Einakulam, Cochin (Dried Fish)

**KARACHI.**

Arabian Sea Fish Supply Co, Napier Road, Karachi  
 T Motandas & Co, Bunder Road, Post Box 25, Karachi

**MADRAS PRESIDENCY.**

Government Fisheries Experimental Station, Tanur, Malabar  
 Kaivathaka Industrial Works, Hoige Bazar, Mangalore  
 Koriagappa & Sons Hoige Bazar, Bolai, Mangalore, S Kanara  
 Malabar Fisheries Co, Malabar Canning Co, Challyam, Feioke, Malabar  
 P S N Kaliyansundaram Pillai, Avl, Tuticorin (Dried Fish)

**ORISSA**

Ekadasi Mallik, Badaga, Bahanga, Balasore.  
 Sadhu Mallik, Badaga, P O Bahanga, Balasore

**FISH OIL MANUFACTURERS & DEALERS:**

C Abdullahman and Coragappa, Hoige Bazar, Mangalore  
 Chatoorbhai Bhanjee Gheewalla, Gujjar St, Bhendy Bazar, Bombay  
 Cochin Fisheries, Vypeen, Cochin  
 Govt Fisheries Experimental Station, Tanur, S Malabar

Khaitan Sons & Co, 1, Commercial Buildings, Clive St, Cal  
 Pally & Co, P O Box No 12, Madras  
 Sardine Manure Fish Guano and Fish Oil Factory, Cannanore

**New Customers: How to Create-How to Hold—That wonderful book by K M Banerjee for developing your sales. Rs. 2 Industry Book Dept.**

**FISHING TACKLE DEALERS.**

Abdoolally Noorbhoy, 248-252, Abdulrehman St., Bombay 3  
 Das Gupta Bros & Co, 139-B, Cornwallis St., Cal Factory — 32B, Nalini Sarker St., Cal

Noorul Hasan Saeedulhasan, Sadai Bazar, Delhi  
 T. M. Lotia & Bros, Elphinstone St., Karachi Camp Br — Mallott Rd, Karachi

**FLASK DEALERS.**

Dutt & Co, 28-2, Old China Bazar St., Calcutta.  
 Ismailjee Alibhoy & Son, Bunder Rd., Karachi Calcutta Office

71-2, Canning St., Cal (Vacuum Flasks)  
 Nilmoni Datta & Co, 80-3, Harrison Rd., Calcutta

**FLOUR MERCHANTS.**

Dhanpat Mall Jawala Das, Amritsar  
 Doongaishi Gangri Sha, 343-A, Duncan Road, Bombay  
 Jaysingh Bros, Anand Nivas,

Bhat Bazar, Dongri St., Bombay  
 Lakhmidas Valji Tha, 25, New China Bunder Road, Bombay  
 Mahaliam Rampdas, 21, Rupchand Roy Street, Calcutta

**FLOUR MILLS.****BENGAL**

Empire Flour Mills, Jagat Banerjee Ghat Rd, Shibpore, Howrah  
 Hooghly Flour Mills, Co Ltd, Ramkrishnapur, Howrah Office 4, Bankshall St., Calcutta.  
 Howrah Flour Mills, 35, Ramkrishnapur Ghat Rd, Howrah  
 Reform Flour Mills, 35, Ramkrishnapur Ghat Road, Howrah  
 Shree Ramkrishna Mills Ltd, Dhanbad, E I Ry Hd Office — 57, Burtolla Street, Calcutta  
 Swadeshi Flour Mills, Faaidpur,

Sheo Narayan Ram, Station Rd, Gaya  
 Shree Bihariji Mills, Patna City  
 Shree Lakshmi Rice & Flour Mills, Dinapore Cantt  
 Surya Grains & Flour Mills, Manpur, Gaya Dt

**BOMBAY CITY**

Bansiwala Mills Ltd, Haines Rd, Behind Dhobi Ghat, Mahaluxmi, Bombay  
 Gandhi Flour Mills, Parekhwadi, Gugaum Back Road, Bombay  
 Imperial Flour Mills, Two Tanks, Grant Road, Bombay  
 Kiishna Flour Mill, 38, New Chinch Bunder, Bombay  
 Wallace Flour Mills Co, Ltd, 9, Wallace St, Fort, Bombay.

**BOMBAY PRESIDENCY.**

B B S Roller Flour Mills, Ahmedabad  
 Banshi Roller Flour Mills, Ahmedabad  
 Sholapur Oil and Flour Mills Co Ltd, Sholapur  
 Shri Krishna Roller Flour Mills, Opp Teha Mills, outside Kalupur Gate, Ahmedabad

**CALCUTTA.**

Bengal Flour Mills Co, Ltd 103, Clive Street Calcutta Mills — Shibpore, Howrah

**BIHAR**

Akhter Yusuf, Sheighati Road, Gaya.  
 Babu Lal Singh Ata Mills, Allah, Shahabad  
 Chaman Sahu Mangla Gouri, Gaya  
 Dinapur Flour & Oil Mills, Dinapore, Patna  
 Gopi Ram Purani Godown, Gaya  
 Jamuna Flour & Oil Mills, P O Katihai, Purnea  
 Kohinoor Mills, Gaya  
 Lakshmi Mills Muzaffarpur  
 Mathuria Singh Tilha Gaya  
 Ramchandria Ram Kali Prasad, Gaya  
 Ramesh Prasad, New Godown, Gaya

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Bhagirath Flour Mill, 105, Cossipore Rd, Calcutta.  
 Calcutta City Flour Mills, Bagh-bazar, Calcutta  
 Calcutta Flour Mills, 242-1, Upper Circular Rd, Calcutta  
 Marwar Flour Mills, 244-2, Upper Circular Rd, Calcutta.  
 Nandanbagan Flour Mills, 236, Upper Circular Rd, Cal  
 Narkeldanga Roller Flour Mill, 17-4, Canal West Rd, Cal  
 New India Flour Mill, 41, Simla Rd, Calcutta  
 Rancee Flour Mills, 243-A, Manicktolla Main Rd, Calcutta  
 Sree Biswanath Swadeshi Flour Mills Ltd, 3, Chaitan Set St, Calcutta.  
 Swadeshi Flour Mill, 3, Wellington St, Calcutta  
 United Flour Mill Co, Ltd, 3, Ultadanga Main Rd, Calcutta

**DELHI.**

Crown Flour Mills, Dufferin Bridge, Delhi.  
 Delhi Flour Mills Co Ltd, Roshanara Rd, Subzi Mandi, Delhi  
 Delhi Gram Flour Mills & Co, Hathikhana, Delhi  
 Delhi Jamna Flour Mills, Bela Rd, Delhi  
 Ganesh Flour Mills Co Ltd, Delhi  
 Goels Rice House & Flour Mills, Khari Baoli, Delhi  
 Gopal Flour Mills, Pahalganj, New Delhi  
 Ishwai Flour Mills, Bath Shab-bulah Chowki Bazar, Delhi  
 Lakshmi Dunga Flour Mills, Pahalganj, Delhi  
 Ramkishan Flour Mills, Ajmere Gate, Delhi

**INDIAN STATES**

Bhandari Dava Shankar Kaithon-ki Sarai, Kotah  
 Chaganlal Flour Mills, Abu Road, Sirohi State  
 Flour Mills & Ginning Factory, Jaipur  
 Gaddisal Mungappa, Rice & Flour Mills, Nvamti Shimoga, Mysore  
 Gopal Flour Mills, Abu Road, Sirohi State

Gwahor Roller Flour Mills, Mill Rd, Gwahor.  
 Krishna Muruthi Flour Mills, 191, Old Tharagupet, Bangalore City  
 Mallikarjuna Flour and Soapnut Power Mills, Malleswaram, Bangalore  
 N Gurulingappa, R A Rice & Flour Mills, P. O Nyamti, Shimoga, Mysore  
 Onkarmal Flour Mills & Co, Ujjain, Gwahor State  
 Padam Chand Flour Mills, Abu Road, Sirohi State  
 Roller Flour Mills, Patiala  
 Sri Anantha Krishna Flour Mills, Old Tharagupet, Bangalore City  
 Sri Jayalaxmi Flour Mills, Old Tharagupet, Bangalore City.  
 Sri Venugopal Flour Mills, Old Tharagupet, Bangalore City  
 Simivas Roller Flour Mills Co, 188, Old Tharagupet, Bangalore  
 Swadeshi Cotton & Flour Mills, Ltd, Indore  
 Vatsala Flour Mills, West Pam Rd, Malleswaram, Bangalore

**KARACHI**

India Flour Mill (1936) Ltd, Cinnatus Town, Karachi  
 Karachi Steam Roller Flour Mills Co Ltd, Lawrence Rd, Karachi  
 Sind Flour Mill Co Ltd, Dhobi-Ghat Road, Garden Quarter, Karachi  
 Vishnu Flour Mills, Napier Road, Karachi  
 Wallace Flour Mills Co, Ltd, McLeod Rd, Karachi

**MADRAS**

Bhupendia Flour Mills, 3-7, Thatha Muthiappen St, G T. Madras  
 South India Flour Mills 4548, North Beach Rd, Madras

**MADRAS PRESIDENCY.**

Chandia Flour Mill, Ambur, N A Dt

**ORISSA.**

Balunam Narsing Lall, Dispensary Rd, Sambalpur

Bhima Ice Factory & Flour Mills,  
Chauligunj, Cuttack  
Harishankar Flour Mill, Edward  
Bazai, Shambalpur

#### PUNJAB.

Benaisi Dass Steam Roller Flour  
Mills, Ambala Cantt.  
Bishamber Dass Ram Sarup,  
Karnal  
Bhupendia Flour Mills, Bhatinda  
Central Flour Mills, Kasur  
Chumanlal Vn Sain Jain, Karnal  
Ganesh Flour Mills Co Ltd, Ly-  
allpur, Delhi & Cawnpore  
Ghulam Nabi Haji, Karnal  
Gudharilal Tara Chand Flour  
Mills, Fatehabad, Tarn Taran  
Guru Nanak Flour Mill, Sheikhu-  
pura  
Jawala Flour Mills, Amritsar  
Khalsa Flour Mills, Fatehabad,  
Tarn Taran  
Krishna Flour Mill, Sheikhpura  
L Shadiram Jiwaniam, Rice &  
Flour Mills, Fatehabad, Hissar  
Mehta Megh Raj Mills, Merchants  
Road, Ferozepore Cantt  
Mohani Flour Mills Ltd, Sargo-  
dha  
Mogboul Flour & Oil Mills, Amrit-  
sar  
Nanak Chand Sain Dass Flour  
Mills, Gurdaspur  
People's Flour Mills, Ferozepur  
City  
Pioneer Flour Mills, Lyallpur  
Seth Sukhdev Bakhsh Flour Mill,  
Multan City, (Punjab)

**Sh. Mian Mohammad Allah  
Buksh**, PB No 8, Lyallpur  
Factory —Piemel Flour Mills,  
Lyallpur  
Sutlej Flour Mills, Ferozepur

#### SIND

Krishna Flour Mills, Sukkur  
Seth Anandmal Bodomal Flour  
Mills, Sukkur  
Seth Shewomal Rupomal Flour  
Mills, Sukkur  
Shri Dewan Flour Mills, Shikar-  
pur

#### UNITED PROVINCES

Allahabad Milling Co, Ltd,  
Lucknow, Allahabad  
Cawnpore Flour Mills Co, Ltd,  
Coupeingunge, Cawnpore  
Ganga Flour Mills, Municipal  
Market, Naini Tal  
Gauri Shankar Flour Mill, Fateh-  
garh  
Harauni Flour & Rice Mills, P.O.  
Harauni, Dt Lucknow.  
Hari Krishnadas Steam Roller  
Flour Mills, Saharanpur  
Krishna Flour Mills, Railway Sta-  
tion Rd, Meerut City  
Lucknow Steam Flour Mills &  
Workshop, Lucknow  
Ram Sahai Flour Mills, Fateh-  
garh  
Shri Venkateshwai Flour Mills,  
Lucknow  
Sriram Mahadeo Prasad Ginning  
Roller Flour Mills, Cawnpore  
Tola Ram Flour Mills, Fatehgarh.  
Venkateshwai Flour Mills,  
Lucknow

#### FLYING CLUBS.

Bengal Flying Club Ltd, Civil  
Aerodrome, Dum Dum  
Bihar Flying Club Ltd, Patna  
Bombay Flying Club Ltd, Juhu  
Aerodrome, Santacruz, Bombay  
Delhi Flying Club Ltd, New  
Delhi  
Hyderabad State Aero Club, Beg-  
umpet Aerodrome Hyderabad  
Jaipur Flying Club, Sanganeer  
Aerodrome, Sanganeer, Jaipur

Jodhpur Flying Club, Jodhpur  
Karachi Aero Club Ltd, Post  
Box 249, Karachi  
Madras Flying Club Ltd, Post  
Box No 286, Madras  
Northern India Flying Club, 41  
Lawrence Road, Lahore  
United Provinces Flying Club  
Ltd, Civil Aerodrome, Cawnpore

**MANURES & THEIR APPLICATION** a useful handbook for all amateur-  
gardeners As 5. Industry Book Dept., Shambazar, Calcutta

**FODDER MERCHANTS.**

A C Gandhi & Bros, Opp Atta Mills, Railwaypara P O, Ahmedabad.

Austrian Fodder Supply Co, 8, Canal Rd., Hastings, Calcutta

Chana Koishi & Co, 187, Tardeo Road, Bombay

Gudharilal H Lohana, 303, Duncan Road, Bombay

Grains & Pulses Supply Co, 16, Gahiff St, Calcutta

Horse and Cattle Food Supplying Co, Dibrugarh

N Papanna & Bros Mysore

Victoria Fodder Store, Bangalore

**FOUNTAIN PEN DEALERS.****BIHAR.**

Kamala Book Store, P O Bankipuri, Patna

**BOMBAY CITY.**

Hornby Fountain Pen Depot, National Insurance Bldg, 204, Hornby Road, Bombay

S Chandia & Co, 39, Empire Building, Hornby Road, Fort, Bombay

**BOMBAY PRESIDENCY.**

Mehta Bros, The Gates, Ahmedabad

N H Lakhia & Co, Kshatriyanagar, Ellis Bridge, Ahmedabad

**CALCUTTA.**

Anundo Chunder Ghose, B-51, & 81, New Market, Calcutta

Bharati Store, 86-4, Harrison Road, Calcutta

Binode & Co, 13, Dalhousie Sq, East, Entrance Mission Row, Calcutta

Continental Commercial Co, 8-1, Dalhousie Sq East, Calcutta  
B1—Fraser Road, Patna

Das Gupta Bros & Co, 139-B, Cornwallis St, Calcutta

Dhai Bros, 82, Harrison Road, Calcutta

Ever Ready Store, 84A, Harrison Road, Calcutta

Nilmoni Dutt & Co, 80-3, Harrison Road, Calcutta

Stationers Nandy Bros, Ltd, 31, Ashutosh Mukherjee Road, Bhowanipuri, Calcutta

**CENTRAL PROVINCES.**

Kohinoor General Agency, Residency Road, Nagpur

**DELHI.**

Royal Fountain Pen Co, Chandni Chowk, Delhi

Swiss Watch Co, Chandni Chowk, Fort End, Delhi

Z Ali Brothers, Connaught Place, New Delhi

Zangl Pen and Ink Manufacturing Co, 532, Egerton Road, Delhi

**INDIAN STATES.**

A Roy & Co, Opp Chinnabai Tower, Baroda

**MADRAS.**

Jalal & Sons, 46, Rattan Bazar, Madras

**MADRAS PRESIDENCY.**

K V Ratnam & Bros, Ratnam Pen Works, Rajahmundry, (S India)

**PUNJAB.**

A M Rasul & Co, Lyallpuri

**UNITED PROVINCES.**

Bholanath & Co, 36, La Touche Road, Lucknow

Fountain Emporium, Moradabad

Kela Bros, Jaiganj, Aligarh

Rughnath Pd & Sons, Chouk, Cawnpore

**FOUNTAIN PEN MANUFACTURERS.**

Bharat Fountain Pen Works, Chowk, Cawnpore

Eagle Pen Co (India), Hospital Road, Agia

F N Gooptu & Co, Ltd, 12, Belaghatta Road, Calcutta

G. C Law & Co, H O 63, Radha Bazar St, Calcutta

Thick Type insertions in these pages are Profit Making—Surely.

INDUSTRY, 22, R. G. Kar Road, Shambazar, Calcutta:

Gem & Co, 9 & 10 (325-326),  
China Bazar Rd, G T Madras  
K V Ratnam & Bios, Ratnam  
Pen Works, Rajahmundry, (S  
Indi)

National Fountain Pen Works,  
32, La Touche Road, Lucknow

Pen Corner of Calcutta, 29, Dal-  
house Sq West, Calcutta  
S Amdu M Yousuf, 56, Canning  
Street, Calcutta  
Swadeshi Fountain Pen Works,  
Bharat Ashram, Raja Bazar,  
Lucknow

### FRUIT DEALERS.

#### ASSAM.

Akbarpur Piney, P O Naim-  
cheria, S Sylhet  
Dangalpora Orchard, P O Barbam,  
Ry Stn Bhojo  
United Fruit Co Ltd, Shillong  
(Orange Planters & Dealers)

#### BALUCHISTAN

Bodh Ram & Sons, Chaman,  
Quetta  
Gokalchand Tarachand & Sons,  
Circular Road, Quetta

#### BENGAL

Hindusthan Fruit Preserving Co.,  
Ltd, Malda  
Khan Brothers & Co, Malda  
Rais Meeaza, Kalla Nizamat,  
Mushidabad (Mango)  
Shahibzada Sayed, Kalla Nizamat,  
Mushidabad (Mango)  
Sherab Lama & Sons, Darjeeling  
Sudeisan Mazumdar, Darjeeling

#### BIHAR.

Avatar Nursey, Nayanagar,  
Ruseia, Darbhanga  
Bengal Preserving Co, Muzaffar-  
pur  
Maharaj Garden Nursey, Dhab  
kothi, Ruseia, Darbhanga  
Tuboot Fresh Fruit Supplying  
Nursey, Ruseia, Darbhanga

#### BOMBAY CITY.

Bhambhumal Gobindram, 399, Kal-  
badevi Road, Bombay  
Chhaganlal Mahadev & Co, Sita-  
ram Building, "B" Block, Near  
Crawford Market, Bombay  
Dhoble & Co, 547, Crawford  
Market, Bombay  
Essabhai Hassan & Sons, 22,  
Crawford Market, Bombay  
Ganpat Abaji Bodke, Stall No 89,  
Crawford Market, Bombay  
Haji Ajji & Abdul Sakur Bios,  
151, Kazi Syed Street, Khand  
Bazar, Bombay  
Haji Keshawji, Kharek Bazar,  
Mandvi, Bombay (Dried  
Fruits)  
Jugaldas Damodar Mody & Co,  
319-321, Kharek Bazar, Bombay.  
M Reza Busheri & Co, 324,  
Kharek Bazar, Bombay 9  
Ranchhoidas Monji, Masjid Bun-  
der Road, Bombay  
Ratanji Korji & Co, 339, Old  
Market, Juma Masjid, Bombay  
Sha Dalsukhbhai Hirallal & Co,  
324, Kharek Bazar, Mandvi,  
Bombay 9  
Sha Nursey Tokesey, Masjid  
Bunder Road, Bombay (Dried  
Fruits)

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Specialist in Fountain pen repairing and Name engraving  
Authorised wholeseller for "PARKER," "SHEAFFERS" and other  
well known brand Fountain Pens



Talji Dayal, Kharek Bazar, Mandvi, Bombay.

#### **BOMBAY PRESIDENCY.**

Abdul Karim Gulambhussen, Shak-Bazar, Viramgam, Ahmedabad.  
Atmaram Nathubhai, Shak Bazar, Viramgam, Ahmedabad

Orange & Plants Supply Association, Kalmeshwar, G I P Ry.  
Oriental Cannery Co., Honavel, N Kanara

Rambharose Mahabir, Bhadiakali Market, Nasik City

#### **CALCUTTA.**

Delawai Jan Md Ariff, 12, Ramlochan Mallick St, Calcutta

Fazal Mahmud Ali Ahmed, 12, Ramlochan Mallick Street, Cal  
Haji Tilla Mohd & Bros, Sir Stuart Hogg Market, Calcutta  
Keshandass Kaldass, 12, Ramlochan Mullick St, Calcutta  
Mohamad Salim & Bros, NB 13, Sir Stuart Hogg Market, Cal  
Mohamed Bukhsh 12, Ramlochan Mullick Street, Calcutta

#### **CENTRAL PROVINCES.**

Central Fruit Store, Residency Road, Nagpur

#### **DELHI.**

Kale Khan & Sons, Fatehpuri Bazar, Delhi

Mohd Ibrahim Mohd Mushaquin, Subzimandi, Delhi

#### **INDIAN STATES.**

Apple Walnut Co, Baramula, Kashmir.

Challona Apple Orchards, Chamba (Via Dalhousie)

Gudhai Hemraj, Poibandai

Imperial Fruit Agency, Baramula, Kashmir

K Prayag Raj, Afzalgunj, Hyderabad, Deccan

Leading Fruit Co, Srinagar, Kashmir

Manji Jettha, Vegetable Market, Bazar, Poibandai, Kathiawar.

Newman's Fruit Mart, Srinagar, Kashmir

Shantilal Manilal, Ambachok, Bhavnagar, Kathiawar

Suleman Abbe, Market Bazar, Poibandai, Kathiawar

V. E Esmail, Broadway, Elnakulam, Cochin

Veniss & Co, Srinagar, Kashmir

#### **KARACHI.**

T Motandas & Co, Bunder Road, Post Box 25, Karachi.

#### **LAHORE.**

Indian Mildana Fruit Farms Ltd, Renala Khurd, Lahore

#### **MADRAS CITY.**

Gokuldas Shivjee & Co, 6A, Govindappa Narcken St, GT, Madras

#### **MADRAS PRESIDENCY.**

Bhamy Panduranga Shenoy, Cashew Factory, Mangalore

K Kuppuswami Chetty & Sons, High Road, Chittoor (Mango)

Kandi Lakshmi Kantham, Ellore, W Godavari

Ramakrishna Reddy Desur Aparam, Nagari Post (Oranges)

S K Abdul Rahman Sahib, Salem

T Ramiah, Chandiagudi, Narsingapuram (Mango)

V. K Abdul Rahman Sahib, Kadur (Mango)

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aul, Champaran

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hangli Wadia Bldg, 51, Ma-  
hatma Gandhi Road, Fort, Bom-  
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House, Sandhuist Bridge, Bom-  
bay

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Seth Hatchand Kimatiam, Khanpuri Mahalla, Shikarpur

**UNITED PROVINCES.**

A A Khan & Co, Khairnagar Bazar, Meerut City

Altaf Husain Siddiqui Tharali Dist Gahwal, U P

Anand & Co, Ltd, 81, Chouk Gangadas Allahabad City

Army & Police Equipment Supply Co, P O Box 36, The Mall, Cawnpore

Remodel your business methods with the ideas given in K. M Banerjee's **BUSINESS EFFICIENCY.** Rs 2. Industry Book Dept., Calcutta



Asad & Co, Nizamabad.  
Bhogamati Pd Singh & Shambhu  
Nath Singh, Pura, Fyzabad.

Bhola Nath Shanker Dass, Fatehgarh

Brij Basilal Mata Din, 48, Baidontola Street, Budaun.

Charan Das & Sons, Chauk, Chunar.

D N Bros, 131, Chowk, Allahabad

General Supply Stores, Dhampur

H L Bajpai, Ganeshganj, Lucknow.

H M Ehtisham Ali & Sons, Sitapur

H M Md Sayeed, Meston Road, Cawnpore.

H Md Nasim Md Wasim, Meston Rd, Cawnpore

Hafeezulhassan Ahmeddin, Bara Bazar, Bareilly

Iron & Brass Mechanical Works, 14-69, The Mall, Cawnpore

Kaloo & Company, Benares

Kasoomi Das Shiam Lal, Kaiserganj, Meerut

Kende & Co, Barsi, B L Ry

Keshava Sharan Gupta, Vallay Bazar, Meerut City

Khalil Ahmad Khan, Chawk, Fyzabad.

Krishna Bios., 27, Partabpura, Agia.

Lucknow General Stores, 25, Abbott Road, Lucknow

M. Mohd Safiq Khan, Bahadurganj Sajahanpur

Mullick & Sons, 1, Aminabad Park, Lucknow

Najih Haider, 9, Haider Lodge, Aminabad Park, Lucknow.

Narain Bros, 34-70, Hata Sawal Singh, Cawnpore

P D Gooba & Sons, The Mall, Cawnpore.

Pannalal Kishonilal, Mainpuri

Paras Das & Sons, Lachmi Building, 9, Rajpur Rd, Dehra Dun.

Rampiasad Kanhaiyalal, Chunar.

S A Haque Quaraishi, Kaghzi Mohal, 101-319, Colonelganj, Cawnpore.

S Abdul Bagee & Bros, Nawab Ganj, Muzaffarnagar

S Manzoor Husain, Beharipuri, Bareilly

S K Bhattacharya & Co, Khodai Chowki, Benares City

S M Ibrahim Siddiqui, 83, Nai Basti, Sitapur

Saji C Mohammad Siddiq, 125, Pandariba, Allahabad

Saksena & Sons, Lakhimpur

Saxena Brothers, 135, Samapet Street, Furrukhabad

Sen Roy Swadeshi Bhandal, Meston Road, Cawnpore

Shamlal Sah & Sons, The Mall, Almora

Sia Ram Chandai Sen, Budaun

Sudin & Co, New Chowk, Cawnpore

Udho Naiaim, Bareilly

### GERMAN SILVER WARE DEALERS.

Devidas Shital Prosad, 82, Lower Chitpur Road, Calcutta

Jaganath Prosad Sreenath, 93, Lower Chitpur Road, Calcutta

Lallubhai Ambaiam, 108, Kansara Chawl, Kalbadevi Road, Bombay

### GHEE MERCHANTS.

#### AJMER.

Pure Ghee & Oils Trading Co, Kaiserganj, Bazar, Ajmer

#### ASSAM

Daluiam Baijnath & Co, Dibrugarh

#### BIHAR.

B C Bose, Forbesganj, Purnea

Dipchand Noorchand, Gokulnagar, Khunt, Purnea

Janakpur Dany, Janakpur Road, Muzafferpur Dt

Ramavatar Sharma, Navanagar, Ruseia, Darbhanga

S P Banerjee & Co, Darbhanga, Bihar

Modern foundry shop practice is described in **PRACTICAL METAL CASTING**. Rs. 2/8. Industry Book Dept., Shambazar, Calcutta.

**BOMBAY.**

Akbarally Vallji & Bros, Karimji Building, 155, Kazi Syed Street, Bombay

Bhani Lavji Porbunder Ghee Supplying Agency, Shroff Mansion, 258, Kalbadevi Road, Bombay.

Sha Amthalal Chunilal Gheewala, 25 Mudi Bazar, Mandvi, Bombay

**BOMBAY PRESIDENCY**

Amritlal Manilal, Outside Bhawadi Gate, Viramgam, Ahmedabad

Ghatkoper Ghee Depot, Amrit Bhuvan, Ghatkoper, Thana

Kuberdas Narottam Shah, Kagdi Pith, Kaira

Shah Premraj Kesharchand, 12th Bhawani Peth, Poona

**CALCUTTA**

Ashok Chandra Rakshit Ltd, 26, Cotton Street, Calcutta

Bissessarwal Murulidhar, 154, Cotton Street, Calcutta

Dasarathi Rakshit, 152, Cotton St., Calcutta

Hansraj Shadilal Jain, 19, Synagogue Street, Calcutta

Hemangini Debi, 181, Darmahatta Street, (Nimtola), Calcutta

Jagannath Ramnath, 3, New Jagannath Ghat Rd, Calcutta

Kanai Jivan Kundoo, 4, Ramkumar Rakshit Lane, Calcutta

Lakmidass Premji, 8, Bow Bazar Street, Calcutta

Mahananda Datta & Co, Ltd, 153-1, Cotton Street, Calcutta

Mahesh Chandra Bansidhar & Bepin Behari Kundoo, 6, Ram Kumar Rakshit Lane, Calcutta

Munnalali Dwarkadass, 76, Burtolla Street, Calcutta

Nafar Dulal Sreemani, 9, Ramkumar Rakshit Lane, Calcutta

Nandolal Karui, 90, Burtolla St., Calcutta

Nannuckram Bissessarwal, 20, Cotton Street, Calcutta

Panchanan Ash & Co, 2-B, Ramkumar Rakshit Lane, Calcutta

Rai Charan Chail & Co, 152, Cotton Street, Calcutta

Ramgopal Ram Ratan, 5, Burtolla Street, Calcutta

Sedhmull Onkarmull, 21, Cotton Street, Calcutta

Shewnarayan Ramnaran & Co, 3, Burtolla Street, Calcutta

Surendra Nath Sushil Kumar Sreemani, 33, Nalin Sett Rd., Calcutta

**CENTRAL PROVINCES**

Ram Krishna Puranlal Pandey, Gandhigunj, Jubbulpore

**DELHI**

Lala Peary Lal Lakshi Mall, Khari Baoh, Delhi

**INDIAN STATES.**

Bhanji Lawji, Porbandar

Devidas Chhagan, 4, Jafarabad, Kathiawar

Gokul Hiji, Jafarabad, Kathiawar

Harbilas Dwarkadas, Indarganj, Lashkar, Gwalior

Harnarayan Hiralal, Janakganj, Lashkar, Gwalior.

Karsan Valabh, Jafarabad, Kathiawar

Mahasundar Deojit, Indarganj, Lashkar, Gwalior

# GHEE

## HIND—BRAND

Guaranteed pure bearing 'AGMARK' Special Seal.

R B Kr SULTAN  
SINGH & BROS.,  
Bharat Ghee Grading Station, .  
HATHRAS

Available in Sealed tins of 1  
seer, 2½ seer; 5 seer; 10 seer,  
18½ seers tins

Naran Makan, Jafarabad, Kathiawar  
 Ratansi Devji, Panchhatdi, Junagadh, Kathiawar

**KARACHI.**

Gohumal Dasumal, Jolia Bazar, Karachi  
 Mulchand Jethanand, Badin, Karachi  
 Seth Udeinomal Pheroomal, Jhimpu, Taluka Total, Karachi

**LAHORE**

Maharaja Ghee Mart. 35, Nisbet Road, Lahore.

**MADRAS.**

G R Tiruvengadam Chetty & Co., 144, Audiappa Naicken Street, Madras  
 Srinivas Provision Stores, Triphucane, Madras

**MADRAS PRESIDENCY.**

B Subbiah, Cocanada, Godavary  
 Gokulam Pure Ghee Store, Dhara-puram, Malabar  
 Lingam & Co., Oppanakara St., Coimbatore  
 M L Ponnappa Chetty & Bros, Raja Street Coimbatore  
 P K Varadachari & Co., Jammalamadugu, Cuddapah  
 P Suthusami Co., Tavampalayam, Dharampuri  
 R Jethabai, Guntur  
 Tirupur Ghee Manufacturing Co Tirupur, S I Ry

**PUNJAB**

Anantiam Mulkaai, Khangaih Doerai, Shekhupura  
 Devidas Kanshiam, Bhalwai, Saigodha  
 Godharai Jitwandas, Jaranwala  
 L Lala Ram Iqbalnagar

Punjab Ghee Grading Station, Uklana, Hissar  
 Sunder Singh Tara Singh, Pindi Bhatiah  
 Tirokaram Musaddilal, Mian Channun

**UNITED PROVINCES.**

Amarchand Chandanmal, Mahoba  
 Baldeo Pd, Fyzabad  
 Basantlal Pyarilal, Bharatpur Gate, Muttra  
 Ganeshprasad Kunjilal, P O Mau Ranipuri, Mau, Dt Jhansi  
 Gangaprasad Kashinath, P O Mau Ranipuri, Mau, Dt Jhansi  
 Jhannilal Mul Chand, Nayaganj, Hathras  
 Kalka Pershad Chamanlal, Collectorgunge, Cawnpore  
 Krishna Gopal & Sons, Civil Lines, Cawnpore  
 L Madan Gopal Danji Dayal, Nayaganj, Hathras City  
 Lala Nandkushore Tandon, Etawah  
 Murtinanj Dutt, Etah  
 Narandas Mehta Deen, Collectorganj, Cawnpore  
 Parnal Poojan Lal Mahoba  
 Prasad Ghee Grading Station, Kasganj.  
 R B. Kr. Sultan Singh & Bros, Bharat Ghee Grading Station, Hathras  
 Raghunath Das Jamnadas, Govindaganj, Muttra  
 Ram Krishna Sita Ram Gupta, P O Zaidpur, Barabanki Dt  
 Sagarmal Ramswaroop, Khurja  
 Sahitya-Ratna Lala Chhambhai-lal Bajaz, Namak Mandi, Hathras  
 Sri Ram Mahadeo, Collectorgunge, Cawnpore

**GINNING & PRESSING FACTORIES.**

(See also Jute Press)

**AJMER-MERWARA.**

Holme Cotton Ginning Factory, Bijal Nagar, Ajmer  
 New Cotton Press & Ginning Factory, Beawal, Merwara

Shatuniya Manak Factory, Kekil, Ajmer

**ASSAM**

Bhararia Cotton Ginning & Pressing Factory, Dhubi

**TELL YOUR STORY WHERE IT WILL BE READ. Write to 'Manager, INDUSTRY, Shambazar, Calcutta.**

Krishna Cotton Ginning Mill,  
Mankachai  
Ram Cotton Mill, Mankachar

**BENGAL**

Cossipore Cotton Ginning Factory, 2, Sugai Works Lane, Cossipore, Calcutta  
Nityananda Cotton Ginning Factory, Bandai, Naijanganj, Dacca  
S Somani & Co, Strand Road, Chittagong  
Sadani Cotton Ginning & Pressing Factory (Cal) Ltd, 90, Cossipur Road, Calcutta Office 13, Jackson Lane, Calcutta.

**BOMBAY PRESIDENCY.**

Ahmedabad Pressing Ginning & Manufacturing Co, Ltd, 1, Naroda Road, Ahmedabad  
Akbar Cotton Press, Ahmednagar.  
Allaiddinbhai Somaji Gin & Press Factory, Chalisgaon, E Khandesh  
B N Kadadi Pressing Factory, Baramati, Bhimthadi, Poona  
Bavla Cotton Press, Bavla, Dholka, Ahmedabad  
Bhagirath Narandas, Dhulha, W Khandesh  
Bodwad Cotton Pressing Factory, Bodwad, Bhusawal  
Colabawala Press Factory, Nandurbar, W Khandesh  
Contractor Ginning & Pressing Factory, Kim, Olpad, Surat  
Crystal Glass Works, Sant Road, B B & C I Rly  
D R Vakharia Pressing Factory, Dakoi Thasia Kania Jambusai, Broach  
Dhulha Cotton Co's Press Factory, Dhulha, W Khandesh  
Eastern Cotton Trading Co's Press Factory, Dhulha  
Gamadia Pressing Factory, Gadag, Dharwar  
Ghelabhai Pragnu Desai, Jalalpoore Road, Navsari, Surat  
Indian Cotton Oil Co, Vijalpoore Road, Navsari, Surat  
Ishwardas Stoies Gin & Press, Dhanduka, Ahmedabad

J R Vakharia & Sons Press Factory, Kapadwanj, Kania  
Kanji Shivji Gin & Press Factory, Jalgaon, E Khandesh  
Ledget Cotton Press, Darukhana, Mazagaon, Bombay  
Maganlal Rameswar Gin Press Factory, Malegaon, Nasik.  
Mahajan Gin & Pressing Factory, Athni, Belgaum  
Manilal Motilal Ginning & Pressing Factory, Vnamgaum, Ahmedabad  
Narottamdas Hanubhai Cotton Press Factory, Shahada, W. Khandesh  
New East India Press, Karmala, Sholapur.  
New Jamnei Press Factory, Jamnei, E Khandesh  
Paragji Ranchodji & Co, Pressing Factory, Navsari, Jalalpoore, Surat  
Parbhuram Manilal Gin & Press Factory, Pandharpur, Sholapur  
Ratanji Fardunji & Sons, Pressing Factory, Broach  
Ratanji Furdunji Vakharia, Chikhli Road, Bhimora, Surat  
Sangappa Yelamali Ginning & Pressing Factory, Gadag, Dharwar  
Shrihanand Gin & Press Factory, 1, Bagalkot, Bijapuri.  
Surat City Press Co, Surat  
Swadeshi Mills Gin & Press Factory, Hubli, Dharwar  
Trikamji Kanji Press Factory, Pachola, E Khandesh

**CENTRAL PROVINCES**

Bachhraj Gin & Press, Waidha.  
Gokuldas Dossa & Co, Wun. Yeotmal  
Jamnadas Nursey Ginning & Pressing Co, Ltd, Digias. Yeotmal  
Murarka Ginning & Pressing Factory, Chandur, Amraoti  
Pukharaj Kochar G & P Factory, Chanda  
R B Haidatroy Rampiatap, Shegaon, Buldana  
Seth Abhanam Chunilal Gin & Press Factory, Pipariya, Hoshangabad

**TELL YOUR STORY WHERE IT WILL BE READ** Write to  
Manager, INDUSTRY, Shambazar, Calcutta

Shri Ghadand Gin & Press Factory, Anjangaon, Amraoti

### INDIAN STATES.

Baldeo Ginning Factory, Erinpura Road, Jodhpur

Faundoonjee Pestonjee Factory, Jalna, Aurangabad

Kalidas Naran Das Cotton Ginning Factory, Itola, Baroda

Marwar Cotton Ginning Factory, Erinpura Road, Jodhpur.

Poibandai Cotton Press, Poibandar

Shree Dhoiraji Gin Mill Co, Dhoiraji, Kathiawar

### MADRAS.

Madras Baling Press Co, 84, Sydenhams Road, Vepery, Madras

### MADRAS PRESIDENCY.

Bellary Cotton Press Co, Ltd, Bellary.

Bezonji Byiamji & Co, Gooty Taluk, Guntakul

Deccan Pressing & Ginning Co, Guntur

K A Palaniswami, S V V G Factory, Tirupur.

Krishna Mills Press Factory, Coimbatore

Madhowji Dharmji Mnfg Co Ltd, Palladam, Tirupur

Nandyal Press, Nandyal, Kurnool

Tinnevely Cotton Press Co, Ltd, Dindigul, S I

### PUNJAB.

Aijan Cotton Factory & Press, Phullarwan, Shahpui

Desh Cotton Factory, Chuhanakana, Sheikhpura

Durga Dass Bhagwan Das, Kasu Ganesh Cotton Factory, Sheikhpura.

Guru Ramdas Cotton Mills, Grand Trunk Road, Amritsar

Khalsa Cotton Factory, Sankla Hill, Sheikhpura.

Onkar Cotton Ginning & Pressing Factory, Lyallpur.

Punjab Cotton Press Co, Ltd, Bharat Bldgs, Lahore

Tirath Ram & Sons, Chak Jhumia, Lyallpur

### SIND.

Edulji Dinshaw Pressing Factory, Mirpuikhas, Thai Parkar

Hiranand Notandas Gin & Press Factory, Shahdadpur, Nawabshah

Manghanmal Wadhmal, Tando Adam, Nawabshah

Pahlumal Motiram Cotton Ginning Factory, Mirpuikhas, Thai-Parkar

Seth Kundomal Ahm Chand, Shahdadpur, Nawabshah

Vishandas Nihal Chand, Hyderabad

### UNITED PROVINCES.

Amolak Chand Mewaram Factory, Maqdamganj, Khurja, Bulandshahr Dt

Cawnpore Hydraulic Press, Cooperganj, Cawnpore.

Chaturvedi Cotton Ginning Factory, Firozabad.

Golakhiam Sadhuram Cotton Ginning & Pressing Factory, Khurja, Bulandshahr Dt

Johnson Ginning Mills, Raipuriwa, Cawnpore

Jugglal Kamalapat Pressing Factory, Pakka Bagh Rd, Etawah

Mahammad Said Cotton Ginning & Pressing Factory, Ghudia Bagh, Aligarh.

Radha Kapas Factory, Paramanand Building, Ait, Jalaun Dt  
Ramchand Matumal Ginning Factory, Firozabad

## GLASS MANUFACTURERS.

(See also Glass Bangle Manufacturers)

### BENGAL.

Bharat Glass Works, Ltd, Ambica Mukherjee Rd, Belgharia, 24-Pargas

Central Glass Industries Ltd., 60-3, Barrackpore Trunk Road, P. O Belghuria, 24-Parganas

**PRACTICAL METAL CASTING**—A comprehensive treatise on the art of founding with practical details. Rs. 2/8. Industry Book Dept., Calcutta.

# THE UNITED PROVINCES GLASS WORKS LTD.,

BAHJOL, (E. I. R.) INDIA.

## *Manufacturers of*

Globes for Dietz or '252' Lanterns German Shape, Globes for Other Lanterns, Chimneys for Oil Lamps with Top Melted Edges, Globes for Oil Lamps, Globes for Gas Lamps, Stationer's Glasswares, Oil Containers for Table Lamps, Lota Moradabadi Shape or Gadvi, Round and Octagonal Jars with air-tight glass covers suitable for keeping Pickles, Achars, Sweets, Biscuits, Cakes and Preserved Fruits, etc., etc. Tumblers Smooth with Melted Edges, Ornamental Glassware, Handies or Pull-Over Glass and Phanus.

## **We also Manufacture**

Sheet-glass in various sizes and thicknesses

We make bottles of 3 oz, 6 oz, 20 oz, 40 oz and 60 oz capacity for chromopaths in all the seven colours. Prices can be had separately.

We also manufacture shades in various designs, sizes and colours. Separate price list can be had on request

**The following are the concessions for the whole-sale dealers :—**

Upto Rs. 100/-	--	--	no discount
from Rs. 101/- to Rs. 250/-			3/2/- p. c.
above Rs. 250/-			6/4/- p. c.

Electric shades of many varieties and designs in attractive colours, sheet and window glass 1/16" to 1/4" thickness are also manufactured, for which please send for separate pricelists.

East-end Industrial & Glass  
Factory Ltd, Shajganj P O.  
Pabna.

Hardeo Glass Works, Dacca  
Mandalassa Glass Institute, Ram-  
nabametalla, Bally, Howrah.

Sree Gobindeo Glass Works,  
Ramrajatola, Howrah Office  
9, Ezra Street, Calcutta

Victoria Glass Works, Ghosery,  
Howrah

#### BIHAR.

Behai Glass Works Ltd, Darul-  
gany, Arrah

Md Jan Abdul Ghani, Machei-  
hatta, P O Jhaogunj, Patna  
City.

Md Sulaiman, Padma-khaweli,  
Patna City

#### BOMBAY CITY.

Bombay Glass Works, Near Ruby  
Mills, Lady Jamshedji Rd, Da-  
dar, Bombay

Western Indian Glass Works,  
South Rd, Panchmahal, Bom-  
bay.

#### BOMBAY PRESIDENCY.

Ogale Glass Works, Ltd, P O  
Ogalevadi, Sataia

Paisa Fund Glass Works, Tale-  
gaon, Dabhade, Poona.

#### CALCUTTA.

Artistic Glass Works, 1-2, Tagore  
Castle St, Cal

Calcutta Glass & Silicate Works,  
9, Kundu Lane, Calcutta

Economic Glass House, 25A, Swal-  
low Lane, Calcutta

Imperial Glass Works, 9, Ezra  
Street, Cal

Lucky Glass Works, 165, Lower  
Chitpur Road, Calcutta

Medical Products Manufacturing  
Co, Ltd, 149, Raja Dinendra  
St, Calcutta

Medico Chemical Laboratory, 8-A,  
Raja Nabo Kissen St, Calcutta

New Cherry Glass Works, 137-15,  
Narkeldanga Main Rd, Cal

New Indian Glass Works, (Cal-  
cutta) Ltd, 7, Rawdon St, Cal

Oriental Glass Works, 58, Bahu  
Sura Road, Calcutta.

Scientific Indian Glass Co, Ltd,  
6, Church Lane, Calcutta

Sodepur Glass Works, 57-58, Ra-  
dha Bazar St, Calcutta Fac-  
tory—Sodepur

#### CENTRAL PROVINCES.

Central Glass Works, Imambada  
Road, Circle No 2, Nagpur City  
Jewel Glass Factory, Civil Sta-  
tion, Jubbulpore

Nagpur Glass Works, Nagpur  
Onama Glass Works, Gondia

#### INDIAN STATES.

Bikaner Glass & Pottery Works,  
Industrial Area, Bikaner

Bikaner State Glass Works,  
Bikaner. (Also Syringe)

Daga Glass Factory, Bikaner.

Deccan Glass Works, Begampet,  
Hyderabad Dn

Diamond Glass Works, Rao, Hol-  
keri State, Central India

Mysore Glass & Enamel Works  
Ltd, 34, Gandhinagar, Banga-  
lore City

Travancore-Ogale Glass Mfg Co  
Ltd Vadakanchery Bank Build-  
ing, Alwaye, Travancore State

#### LAHORE.

Kaycee Glass Works Ltd, The  
Mall, Lahore

#### MADRAS.

Jamal Glass Works, Tondiarpet,  
Madras

#### PUNJAB.

Bhalla Glass Works, Ludhiana  
Sindhu Glass Works, Jungshahi,

N W Rly

Upper India Glass Works, Ltd,  
Ambala City

#### UNITED PROVINCES.

All India Glass Works, Nagina  
Allahabad Glass Works, Naini,  
Allahabad

B M Glass Works, Near Railway  
Station, Ferozabad

Bijoy Glass Works, Bijnor (Glass  
Sheet)

Capital Glass Works, Shahabad,  
P O Gaziabad, Dt Meerut

Fancy Glass Works, Nagina

If you want to market Crops, learn preliminary process from PREPAR-  
ING CROPS FOR THE MARKETS. Re. 1/12 Industry Book Dept., Cal.

Friends Glass Works, Firozabad,  
 Agra  
 Ganga Glass Works, Ltd, P O  
 Bawalali, Bijnor  
 Girdharilal Mohanlal Agaiwal,  
 Firozabad  
 Golden Glass Works, Nagina  
 Hanuman Glass Works, Firoza-  
 bad, E I Ry  
 Hindu Glass Works, Nagina.  
 Bijnor  
 Indian Full Moon Glass Works,  
 Nagina  
 Islamia Glass Works, Nagina  
 Jain Glass Works, Firozabad,  
 Agra  
 Khandiwal Glass Works, Sasni,  
 E I Ry

Mahabul Glass Works, Firozabad  
 Mirza Glass Works, Chowki Mo-  
 halla, Firozabad  
 Naini Glass Works, 235, Bahadur-  
 ganj, Allahabad  
 Paliwal Glass Works, Shikohabad  
 Pioneer Glass Works, Nagina  
 Rastogi Brothers Glass Works,  
 Kiratpur, Bijnor  
 Sahu Chandni Prasad Glass  
 Works, Dhampur, Bijnor  
 Star Glass Works, Near Railway  
 Station, Firozabad  
**United Provinces Glass  
 Works Ltd, Bahjoi, Morada-  
 bad Dt**

### GLASS MERCHANTS.

A Valiji & Co, Lalsingh Mansing  
 Building, 8-10, Lohar Chawl,  
 Bombay  
 Abdeali Yousufali & Bros, Podar's  
 Bldg, Ghodbunder Road, Santa  
 Cruz West, Bombay  
 Abdoolally Noorbhoy, 122-124, Ab-  
 dul Rehman St, Bombay  
 Alibhoy Kadibhoy Kachwala 84,  
 Abdul Rehman St, Bombay  
 Bejaya Glass Depot, 4, Jackson  
 Lane, Calcutta  
 Budhabhoy Noorbhoy & Co, 199,  
 Abdul Rehman St, Bombay  
 C Cunniah & Co, 248-249, Deva-  
 raja Mudaly St, P T, Madras  
 Calcutta Glass Stores, 3, Mangoe  
 Lane, Calcutta  
 Calcutta Glass Syndicate 19-4,  
 Harrison Road, Calcutta  
 Daudbhoy M Tavehalli, 110, Ab-  
 dul Rehman St, Bombay

Delhi Glass & Tile Co, Fateh-  
 puri, Delhi  
 Dey Glass & Picture House, 188,  
 Anarkali, Lahore  
 G M Motiwala, 80, Bhusari  
 Moholla, Sarang St, Bombay  
 Haji Mowla Buksh & Sons, Fateh-  
 puri, Delhi  
 Imperial Glass & Tile Co, Fateh-  
 puri, Delhi  
 K R S Srinivasiah & Co, 169,  
 Devaiaja Mudaly St, P T,  
 Madras (Also plywood)  
 Karimji Ebrahimji Aisiwala,  
 118, 120, Abdul Rehman Street,  
 Bombay 3 (Also Mirrors)  
 Karmali Kalyan, 144, Bhandari  
 St, Bombay  
 R Ethirajah & Sons, 103, Deva-  
 iaja Mudaly St, Madras  
 R Ramanujah, 87-88, Devaiaja  
 Mudaly St, Madras

### GLASS BANGLES MANUFACTURERS & DEALERS.

#### BIHAR

Shew Mandan Ram, Bharatpur  
 Samli, Begumpore P O, Patna

#### BOMBAY CITY.

Bhogilal Rajaram, 59, 3rd Bhoi-  
 wada, Bhuleswai, Bombay 2  
 Bulakidas Kasturchand, 3rd Bhoi-  
 wada, Bhuleswar, Bombay 3  
 C Merwanji & Co, 154, Bazar  
 Gate St, Fort, Bombay

Maniar Rahimuttalla Karimbhai,  
 3rd Bhoiwada, Bhuleswai,  
 Bombay No 2  
 S C Karanjia & Co, Bazar Gate  
 St, Fort, Bombay  
 Sha Navlaji Dipaji & Co, 67, 69,  
 Bazar Gate St, Fort, Bombay  
 Sha Piemchand Bhulaji & Co,  
 122, Bazar Gate St, Bombay  
 Sha Rayashankar Jetha, 3rd  
 Bhoiwada, Bhuleswai, Bombay

If you want to market Crops, learn preliminary process from PREPAR-  
 ING CROPS FOR THE MARKETS Re 1/12 Industry Book Dept, Cal.



Sha Rikabchand Amichand & Co,  
Bazar Gate St, Fort, Bombay  
Shah A Ramanlal & Co, 153,  
Bazar Gate St, Fort, Bombay  
Shah Dhulaji Sonmal & Co, Bazar  
Gate St, Fort, Bombay  
Umashanker Prabhashanker &  
Co, 31d Bhoiwada, Bhuleswar,  
Bombay 2

**BOMBAY PRESIDENCY.**

N G Works, Chinchani, Thana

**CALCUTTA**

C C Sen & Sons, 37-6, Canning  
St, Calcutta  
K L Manna & Co., 37-11, Cann-  
ing St, Calcutta  
Mohan Lall & Bros, 37-3, Can-  
ning St, Calcutta  
Rabindra Nath Ghosh, 36-1, Can-  
ning St, Calcutta  
S H Abdul Aziz, 44-46, Canning  
St, Calcutta

**DELHI.**

Bashu Uddin, Ganda Nala, Delhi

Kaloo Ibrahim, Gali Halwian,  
Paharganj, Delhi.  
Mohd Ramzani, Gali Halwian,  
Paharganj, Delhi.

**INDIAN STATES.**

Bhakwat & Co, Fennis Market,  
Kolhapur  
C A Moulabux, Bangles Building  
Shop No 3, Jodhpur

**UNITED PROVINCES.**

Basdeo Balkrishna Bangle Cutt-  
ing Factory, Firozabad, Agra  
Bhannilal Glass Works, Near Ry  
Station, Firozabad  
Coronation Glass Works, Firoza-  
bad.  
Girwardhar Lall, Mohan Lall  
Agarwal, Firozabad  
Indian Glass Works, Firozabad  
Radhamohan Ratanlal, Firoza-  
bad, Agra  
Ramsaran Gangasaran, Alampur  
Bldgs, Firozabad

**GLASS BEADS DEALERS.**

F K Motiwalla & Co, 92, Bhusari  
Moholla, Bombay  
Hiralal Dutt, Moniharpatty,  
Barabazari, Calcutta  
Hare Krishna Adhikari, 42, Cann-

ing Street, Calcutta  
Manoemal Issardas Motievala  
Mannott Rd, Karachi  
Nondalal Adhikary, Moniharpat-  
ty, Baria Bazar, Calcutta

**GLASS MOULDING MERCHANTS.**

A K Badani, Noor Manison, 82, Abdul Rehman St, Bombay

**GLASSWARE MERCHANTS.**

(Also Consult Mirror Merchants).

**BOMBAY CITY.**

A Valji & Co, Lalsingh Mansing  
Building, 8-10, Lohar Chawl,  
Bombay

Aboolally Noorbhoy, 122-24, Ab-  
dul Rehman St, Bombay

All India Bottle Supplying Co,  
153-155, Chackla Street, Bom-  
bay 3.

Alladin Dhanji, Lohar Chawl,  
Bombay

Alladin Haji Janjawala, 178,  
Chakla St, Bombay

Bharat General Stores, 50, Vithal-  
bhai Patel Road, Bombay

Bombay Glass Works Depot, Ran-  
goonwalla Bldg., Chakla Street,  
Bombay 3

Ebram Peei Mahomed & Co, 156,  
Sheriff Dewjee St, Bombay 3

L Ebrahim Haji Sheriff & Co,  
160, Chakla St, Bombay

M Haji Hussein Fazal, 161, She-  
riff Dewjee St, Bombay 3

S Ebrahim & Co, 156, Chakla  
St, Bombay

Salemahomed Padamsee & Co,  
141, Chakla St, Bombay.

**BOMBAY PRESIDENCY**

Abdulla & Sons, Limda Chowk,  
Surat

**PRACTICAL METAL CASTING**—A comprehensive treatise on the art of  
foundry with practical details. Rs. 2/6, Industry Book Dept, Calcutta.

Chhaganlal Bhikhabhai, Lunda Chowk, Surat  
 Esmail Ramju, Lunda Chowk, Surat  
 Mahomedali Ishufali, Panfradia St., Dharampur, Surat  
 Shantilal Chunilal Mehta, Seth Pole, Nadiad, Kaira

### CALCUTTA

A M Dadabhoy, 55, Canning Street, Calcutta  
 Ali Mahomed & Co, 27, Old China Bazar St, Calcutta  
 Allahabad Glass Works Depot, 17, Ezra Street, Calcutta  
 Calcutta Glass Stores, 3, Mangoe Lane, Calcutta  
 Calcutta Glass Syndicate, 19-4, Harrison Rd, Cal  
 D N Prasad & Bros, B28-29, Municipal Market, Calcutta  
 Durlav Chandra Mozoomder, 28-17, Old China Bazar St, Cal  
 Indian Bottle Stores, 7, Ezra St, Calcutta  
 Khan Mohamed & Bros, 28-16, Old China Bazar St, Calcutta  
 P S Dutt & Bros, 8, Ezra Street, Calcutta  
 R D Dutt & Bros, 21, Tamei Lane, Calcutta  
 Rash Behary Sen, 190, Old China Bazar St, Calcutta  
 S Md Ishaq, Md Idris, 73, Colootola St, Calcutta  
 S N Paul & Bros, 186, Old China Bazar St, Calcutta  
 S P Singha & Co, 4, Ezra St, Calcutta  
 Sankarlal Paul & Bros, 184, Old China Bazar St, Calcutta  
 Sen & Nephew, 80, Chandni Chowk St, Calcutta

### DELHI

Baluja Glass Co, Delhi  
 Bawa Glass Co, Delhi  
 Calcutta House, Saddar Bazar, Delhi  
 Dhanpat Rai & Son, Delhi  
 Himalaya Trading Co, Fatehpuri, Delhi  
 M Shafi & Co, Near Qutab Rd, Delhi  
 Mohammad Arif Co, Saddar Bazar, Delhi

### INDIAN STATES

Damodar Das Nagori, Lashkai, Gwalior  
 Eshack Hamid, 19, Richard's Square, Bangalore  
 Haji Abdula Haji Umai, Mandvi Chowk, Junagad, Kathiawar.  
 Kolhapur Trading Agency, Feris Market, Kolhapur  
 Nathoo Laljee, Hill Street, Secunderabad, Deccan  
 Sree Rama Krishna Stores, Sree Krishna Bldgs, Maleswaram, Bangalore  
 Yusuf Ali Hasan Ali, Loha Bazar, Bhopal

### KARACHI

Byramji Edulji & Co, Victoria Rd, Karachi  
 Ebrahimji Esmailji Lotia, Bunder Rd, Karachi  
 Haji Zakaria Abdul Satai, Booras St, Camp, Karachi  
 Tayabali Khadhibhoy Lotia & Co, Rambharthi Rd, Karachi

### LAHORE

Maher Singh Sampuran Singh Chawla, The Mall, Lahore

### MADRAS CITY.

Abdul Rahim & Bros, 18, Evening Bazar Rd, Madras

Phone Cal 2133

Use Always

**Messrs Jayanti Glass Works, Ltd.**

PRODUCTS BOTTLES, PHIALS AND JARS.

*Sole Distributors.—*

**P. S. DUTT & BROS., 8, Ezra Street, Calcutta.**

E M Abdulla & Co, 314, China Bazar Rd, Madras

P Alimohamed Zinnah & Co, 67-68, Rattan Bazar, Madras.

P Thiruvaiangiah & Son, 172, Devaraja Mudaly St, Madras

Poppat Jamal & Sons, Jamal Building, Broadway, Madras

Sahibjan Sahib 30, Naniappa Nair St, Madras

T L Pathy & Co, 1-2, & 67, Malaiperumal St, G. T, Madras

#### N. W. F. PROVINCE.

Peshawar House, Peshawar City

#### PUNJAB.

Amir Chand & Sons, Rawalpindi Cantt

Upper India Glass Works, Ltd, Ambala City

#### UNITED PROVINCES.

Abdul Aziz Abdul Rahman, Nagina

Bindrabhan Viswanath, Benares City

Gui Pd Hira Lal, Chowk, Allahabad

Hanuman Glass Works, Firozabad, E I Ry

Mohd Ismail, Nagina

Mohd Rafiq Mohd Hanif, Meston Rd, Cawnpore

Noia Company, Chowk, Benares

R Avasthi & Company, Noughara, Cawnpore, (Bottles)

Sote & Co, Bijnor.

### GLUE DEALERS & MANUFACTURERS.

#### BOMBAY.

Doshi Brothers, (Estd. 1924), Anand (Cream, Butter, Casein & other dairy products)

Gulamally Dawoodbhai & Co, 23, Mangaldas Rd, Bombay

#### BOMBAY PRESIDENCY.

Modern Glue Makers, Post Box No 96, Darnapur Dabgarwad, Behind Gujarati School, Ahmedabad

Searchlight Industries, Anand Western Creameries, Nadiad, Bombay Presy

#### CALCUTTA.

Bansidhar Dutt, 126, Khongia-petty St, Calcutta (Also Bota-

nical Drugs, Gums, Spices, Sand Papers, etc)

Khaitan Sons & Co, 1, Commercial Buildings, Clive Street, Cal

Shaw Wallace & Co, Fertilizer Dept, 4, Bankshall Street, Calcutta

#### PUNJAB.

Allied Manufacturers, Rewari

Atlas Glue Factory, Amritsar

Dilawar Khan & Co, Daim Ganj Amritsar

#### UNITED PROVINCES.

General Stores Supply Co, Ram Nairan Bazar, Cawnpore

Indian Glue Company, H O & Show-Room Ramnagar, Cawnpore

### GOGGLES MANUFACTURERS.

Basmall & Co (India) Ltd, 56D, Beadon St, Calcutta S/Agent

—James Murray & Co Ltd 5,

Old Court House St, Calcutta

Limton Optical Mart, Chandni

Chowk, Katia Qutbuddin, Delhi

### GOLD LEAF MANUFACTURERS.

Munna Meyan Nabijan Meyan, Kaita Kalibibi, Patna City

S K Mohamed Ullah & Sons, 88, Lower Chitpui Road, Calcutta

### GOLD & SILVER THREAD MANUFACTURERS.

#### BOMBAY

Akbarally Abdulhusain, 19, Sutar Chawl, Bombay

Akberhusen Jaiwala & Co, Editors Building, New Channi Road, Bombay

#### BOMBAY PRESIDENCY.

Amritbhai Jethabhai, Manchehpura, Surat

Bhagvandas Lalubhai, Laldaiva-ja, Gundisei, Surat

Start a New Industry! Read MANUFACTURE OF RUBBER GOODS  
Price Re. 1/12. INDUSTRY BOOK DEPT., Shambazar, Calcutta.

Chunilal Maneklal, Mancherpura, Surat  
 Ghelabhai Dayaram Shikari, Mancherpura, Kolsavad, Surat  
 Harkisandas Jamnadas, Moti Seri, Surat  
 Jagmohanlal Dahyabhai Laldarvaja Gundl Serl, Surat  
 Jekishandas Ramsa Gopipura, Surat  
 Motiram Piemchand, Mancherpura, Surat  
 Ranchhoddas Jagjivandas, Moti Serl, Surat  
 Rangildas Uttamiam, Mancherpura, Khaiadiseri, Surat  
 Sita Ram Kandas, Rampura Rd, Surat  
 Thakordas Balabhai Patel, Lum-bhusheri, Surat  
 V Gokuldas Gandhi Bios, Khnst Gally, Ahmednagar  
 Vaju Bhai Chunilal, Gopipura, Surat

**DELHI**

Behari Lal Pearey Lall, Fatehpuri Bazar, Delhi  
 H Abdul Haq M Surajul Haq, Fateh Puri, Delhi  
 Krishna Silver & Gold Thread Factory —Tukoman Gate, Delhi

**GRAINS & SEEDS DEALERS.****ASSAM.**

Jadoimall H Bux Baipet Road, Kamrup (Mustard)  
 Onkar Cotton Mill, Salmaia, South, Dhubri

**BENGAL.**

Amulya Charan Biswas, Banpur, Nadia  
 Dina Bandhu Hari Bandhu Saha, Saissabari, Mymensingh  
 Gopinath Bonomali Basak, Saissabari, Mymensingh  
 Hajee Osi Meah Sowdagar, Baxi-Hat Road, Chittagong  
 Khedan Ram Rangyatam Ram, Tulshihata, Malda (Mustard)  
 Mahesh Chandra Saha, Aiani, Rajshahi  
 Naresh Chandra Singh, Bongaon, Jessore  
 P C Saha, Aiani, Rajshahi

**INDIAN STATES.**

Mysoire Gold Thread Co., Ltd, Bangalore City  
 P Subramania Chettiar, Chalai, Trivandium, Travancore  
 S M Dhaktappa & Sons, Chickpet, Bangalore City

**MADRAS CITY**

K M Subbier & Sons, 104, Nainappa Street, Madras

**MADRAS PRESIDENCY**

South India Silks Limited, Gudiyatam, (N Aicot)

**PUNJAB.**

Jawanshah Munilal, Pasur, Sialkot  
 Nehal Chand Ladhmal, Sialkot  
 Ramchand Chuanilal, Pasur, Sialkot  
 Sawan Shah Motiram, Sialkot

**UNITED PROVINCES.**

Bahadur Mal Nanne Mal, Kinari Bazar, Agra  
 Benares Industries, Ltd, Chowk, Benares  
 Gulab Chand Lakhami Chand, Kinari Bazar, Agra  
 Panday Ji Bhola Nath, Kinari Bazar, Agra  
 Ram Das Shayam Das, 37-100, Gopal Mandu Benares City

**BIHAR**

Badudas Rangilal, Salmaia, Purnea, (Mustard)  
 Bhagatiram Baburam, Behariganj, Bhagalpur  
 Bharatia Bios, & Sons, Raxaul, Champaran  
 Bhawan Dass & Co, Sultanpore, Dinapur, Patna  
 Bichal Majee, Kasba, Purnea  
 Chouthmall Askaram, Behariganj, Bhagalpur (Mustard)

**Start a New Industry ! Read MANUFACTURE OF RUBBER GOODS.**  
 Price Re. 1/12. INDUSTRY BOOK DEPT, Shambazar, Calcutta

Jamuna Dass Adityadeo Narain,  
Sudder Bazar, Cantt Dinapore  
Kanniam Biseswarlal P O Tegg-  
ra, B N W Ry  
Ramji Lall & Sons, Dinapore.  
S Abdul Ghani S Abdul Moghni,  
Gola Road, Dinapore Cantt.

**BOMBAY CITY.**

Amratlal Amerchand & Sons, 36,  
Kazi Sayed Street, Mandvi,  
Bombay  
Bapulal Ramchand Shah, Gaya  
Building, Musjid Bunder Road,  
Bombay.  
Canjee Dwaikadas, 46, Modi  
Bazar, Mandvi, Bombay  
Chhaganlal & Co, 168, Bhanushali  
Building, Argyle Road, Dana  
Bunder, Bombay  
Chhannalal Vadilal Shioff, Piaggi  
Soorji Building, 99, Kazi Syed  
St, Khand Bazar, Bombay  
D M Ganger, Near P O Ghod-  
bunders Rd, Berivil, Bombay  
Damp Anandji & Co, 2nd "N"  
Lane, Dana Bunder, Bombay  
Dampj Punshi & Co, Devkalan  
Nanji's Building, 322, Girgaum  
Road, Thakurdwar, Bombay.  
Dayaldas Chhabildas & Co, 2nd  
Lane, Dana Bunder, Bombay  
Govindji Padamshi Sha, 350-354,  
Katha Bazar, Mandvi, Bombay  
Hirji Govinji & Co, 54, Baroda  
Street, Dana Bunder, Bombay 9  
B —Cherital, Jubbulpore  
Haji Korsi, Seth Bldg, Opp Null  
Bazar Police Station, Bombay  
Joshi Jivandas Gangaram, Bhat  
Bazar, Bombay 9  
Kalidas Vishram, 235, Bazar Road,  
Bandia, Bombay  
Kanu Ukeda, Kurla, (G I P),  
Bombay  
Keshavji Dhaishi, Dadar, Bom-  
bay  
Khum Madon Bhunpuria, Lower  
Parel, Bombay 13  
Lalji Lakshamsi, Lohar Chawl,  
Bombay  
Lalji Poonji & Co, 3, Chinch  
Bunder Rd, Bombay 9

Meghji Vippal Galla, Jacob Circle,  
Bombay.  
Murji Vershi Chheda, Mazagaon  
Dock Yard Rd, Bombay  
Nappoo Nensee & Co, 188, Argyle  
Road, Dana Bunder, Bombay.  
Popatlal Moolchand, Gaya Bldg,  
Musjid Bunder Road, Bombay.  
Ravji Ganpat & Co, "E" Lane,  
Dana Bunder, Bombay  
Sha Dhanji Meghji & Co, "N"  
Guly, Dana Bunder, Bombay.  
Tejsi Kheraj Mazagaonwalla, Ma-  
tar Pakhdi, Mazagaon, Bombay  
Velji Khimji, Musjid Bunder Rd,  
Gaumukh Bhuvan, Bombay  
Velji Lukhamsi & Co, 63, Broach  
St, Dana Bunder, Bombay 9.  
Virji Murag, Currey Road, Bom-  
bay.  
Virji Narshi Saha, Lalbaug, Bom-  
bay 12

**BOMBAY PRESIDENCY.**

Adam Hajee Umar, Belgaum  
Dawood Gani Hassam, Nasik  
Dawood Moosa Kassam, Hubli,  
Dharwar  
Ebrahim Hajee, Nasik.  
Hajee Ahmed Hajee Abal, Bagal-  
kot, Bijapur  
Harilal Khulshal, Bazar St, Dha-  
rampur, Surat  
Kailapa Dumane, Mangalwarpeth,  
Sholapur  
Mansukhlal Govindji, Ganj Bazar,  
Viramgam, Ahmedabad  
Narottamdas Piemchand & Sons.  
Bhawani Peth, Poona City  
Noorimohamed Ali Abdula, Nipani.

**CALCUTTA.**

Dawn & Co, 11, Portuguese  
Church St, Cal (Estd 1906)  
Grains & Seeds Co., 206, Upper  
Chitpore Road, Calcutta.  
Hajee Sattai Hajee Peemohamed,  
23, Amiatola Lane, Calcutta  
Hossen Kassam Dada 20, Amia-  
talla Lane, Calcutta  
Mohammed Hajee Gani, 11, Amra-  
tala Lane, Calcutta  
Mohammed Ebrahim Mohamed  
Jaffer & Co, 16, Amiatola Lane,  
Calcutta

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book of General Letter Writing Rs. 2/-. Industry Book Dept., Calcutta.

Saleh Mohamed Hajee Kassam,  
26, Amratalla Lane, Calcutta  
Shakur Haji Gani, 10, Amratalla  
Lane, Calcutta  
**South India Corporation (Madras)**  
Ltd, 84A, Nalini Sett Road, Cal-  
cutta

#### CENTRAL PROVINCES

Abdul Shakoor Umar, Wun.  
Berar.  
Adam Gani Billoo, Drug, Bhata-  
para Raipur  
Adam Hajee Kasam, Katol, Nag-  
pur  
G R Deote, Chota Bazar, Warud,  
Amiaoti  
Hajee Karim Habib, Ellichpur,  
Berar  
Mohamed Abdul Shakoor Bantva-  
wala, P O Bhatapara, Raipur  
Ram Krishna Puranlal, Pandey,  
Gandhigram, Jubbulpore  
Suleman Mohamed, Bilaspur

#### DELHI

Chandu Lal Suraj Mal Naya  
Bazar, Delhi  
Hardeo Sahai Nand Ram, Khari  
Baoli, Delhi

#### INDIAN STATES.

Abboobucker Hajee C Muhammad  
& Co, Quilon, Travancore  
Abdul Aziz Hajee Hassam Indore  
Abdullehman Hajee Ebrahim,  
Kolhapur, M S M Ry  
Balmukund Bansidhar, Indarganj,  
Lashkar, Gwalior  
Dawood Abdulla Begum Bazar,  
Hyderabad, Deccan  
Gokalbhai Khemji Mandvi, Jam-  
nagar Kathiawar  
H M Shah & Co, Snehalataganja,  
Indore City  
Hajee Dawood Hajee Gani Cham-  
raveth Bangalore City  
Jannadas Bhawan Rajendra Road,  
Jamnagar Kathiawar  
K Ramanna & Bios Santhepet,  
Mysore  
Kala Pitambar, Junagadh, Kathi-  
awar  
Kishanchand Rambaksh Dolat-  
gani Lashkar Gwalior  
Malali Venkatappa, Kadur, My-  
sore State

Pampanna Kashappa Shettar,  
Kopbal, Nizam's State  
Punya Dosa, Khojavad, Jamnagar,  
Kathiawar.  
Ranjit Singhji Oil Co, New Road,  
Jamnagar, Kathiawar  
Tayyob Ahmed, Santapeth, My-  
sore  
Valamji Rajpal, Bazar, Morvi,  
Kathiawar

#### KARACHI.

Basantlal Ramkumar, Sera Road,  
Karachi  
Karchandmal Dayaldas & Sons,  
P O Box No 60, Karachi  
Vishinji Sons & Co, McLeod Rd.,  
Karachi

#### MADRAS.

Adam Hajee Peer-Mohamed Es-  
sack, Anderson St, Madras  
Hajee Habib Hajee Peer Moha-  
med, Anderson St, Madras  
Hoosen Kassam Dada, Anderson  
Street, Madras  
Pyarelal Malhotra, 1 Molony Road,  
Thyagarayanagar, Madras  
V A S M Punnalappa Nadai &  
Sons, 292, Tiruvottiyur High  
Road, Washermanpet, Madras

#### MADRAS PRESIDENCY.

Adam Noormohamed, Guntakal  
Ahmed Abdul Karim, Hospet,  
Bellary  
Hajee Ebrahim Latiff, Adoni,  
Bellary  
Hajee Jamal Noor Mohamed, Viz-  
agapatam  
Haji Karim Ahmed Sarf, Bel-  
lary  
K S P D Muthiah, South Raja  
Street, Tuticorin  
K T Soundararajulu Naidu, Ne-  
gapatam, Tanjore  
Karim Latiff Anakapalle, Vizaga-  
patam  
M T Poonappa Chettiar, Mundv  
St, Erode  
M V T P Piramanayagam  
Chettiar, Peria Kadai Street,  
Tuticorin  
M Kader Muraze Co, Periana  
St Tuticorin  
N Sakkarakkannu Pillai North  
Gate, Madurai (Gingelly)

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book of General Letter Writing Rs 2/-. Industry Book Dept, Calcutta.

Namgulum Venkateswara Rao, Ratnam, Ellore

S N M S Mohamed Salahudeen Saheb, Emperor Street, Tuticorin

S S S Subramania Nadai, Great Cotton Road, Tuticorin

V Narayana Shenoy Sons, Payyanur, Malabar

V S Shunmugam Pillai, French Chapel Road, Tuticorin

#### ORISSA.

J Mohapatra, P O Chauliganj, Cuttack

Jamal Noor Mohamed, Berhampore, Gajnam

Taimohamed Janoo, Cuttack

#### PUNJAB.

Bishandas Motuam, Pasiur, Sialkot

Coleyana Estate Ltd., Coleyana, Okara, Montgomery

Convillapur Farm, Montgomery (Cotton and Wheat)

Gandumal Ramnairan, Sialkot

Grain & Cotton Merchants Co., Ltd, Sabon Bazar, Ludhiana

Lalchand Desai, Pasiur, Sialkot

#### UNITED PROVINCES

B Saiju Pd & Bhagwati Pd Sahu, Ballia Town

Babooiam Mahadeo Prasad, Chunar

Baldeo Lal Basant Das, Palla Bazar, Farrukhabad

Banwaril Lal Ram Bhairasey, Nyagunge, Cawnpore

Beharilal Banke Lal, Moh Jai Jai Ram, Kasganj

Govindram Sewiam, Mahabanganj, Aligarh

Kashil Ram Zahaimal, Colonelganj, Muttia

Lachman Prasad Gauri Shanker, Madhoganj, Haidoi

M Abdul Hasan Qadri, Chahmli Budaun

M Gafar Mian, Vill & P O Chit Baiagaon, Ballia Dt

M L Coy, Fyzabad.

Mahabul Peishad Raja Ram, Najibabad

Mangat Rai Darogha Peishad, Bijnor

Nilkanth Bajinath, Mahoba

Parmanand Saijoo Prasad, Gola Bazar, Ajudhya

R B Seth Sur Narain, Budaun

Ram Bhairase Mahadeo Prasad, Fatehganj, Fyzabad

Ram Sahai Jagannath, Bara Banki

Sadho Ram Tubeni Ram, Azamgarh

Seo Saran Shyam Sundar, Sakle-nabad, Ghazipur

### GRAMOPHONE DEALERS.

(Also see Musical Instruments Dealers).

#### AJMER-MERWARA.

Power Music House, Dhan Mandi Beawar, Merwara Dt

#### ASSAM.

Assam Radio Stores, Dhubri

Bharati Bios Ltd Gauhati

Chauthmal Nuthmal & Sons, Jorhat

S Tehl Singh Shillong

Tewari Bios & Co, Tezpur

#### BENGAL.

Bengal Electric & Engineering Co Jalpaiguri

Chowdhuri Stores, Barisal

Dacca Musical Mart, Victoria Park (South), Dacca

Gramophone Co, Ltd., 33, Jessore Road Dum Dum

Melo House, Chittagong

R C Dalal & Co Khulna

Shaibal Cycle & Watch Co, Malda

Synophone Co, Faridpur

#### BIHAR.

Mukherji Nephew & Co, Kalvansi, Muzaffarpur

#### BOMBAY CITY.

Anandul Kalyanul Vasa Hathi Building, 448 Kalbadevi Road, Bombay

Bombay Phone & General Agency, 518-20-22, Kalbadevi Road, Bombay

Methods of Imports and Exports are discussed in full in **TRADER'S MANUAL**. Re 1/4 Industry Book Dept., Shambazar, Calcutta

Gopal Sakharam & Co, 397-99,  
Kalbadevi Road, Bombay 2  
Laxmidas Dwaikadass Laxmi  
Bhuban, 466, Sandhuist Road,  
Bombay  
Vallabhdas Runchordas & Co.  
Mahim, Bombay 16  
Vasanta & Co, 596, Vincent Road,  
Bombay 10 Factory—Matunga

**BOMBAY PRESIDENCY.**

Balubhai Hajivandas Tanna,  
Khatiwad, Bulsar, Surat

**CALCUTTA.**

Bee-K-Gramophone Co, 40, Tangra  
Road, Calcutta  
Britannia Talking Machine Co,  
(Calcutta), 184, Dharamtala St,  
Calcutta  
C C Saha Ltd, 170, Dharamtala  
Street, Calcutta  
D N Nundy, 2, Dhurumtola  
St, Chowringhee Corner, Cal  
J N Ghosh, 183, Dhurumtola  
Street, Calcutta  
Joseph Herberts & Co, 61, Ben-  
tuck Street, Calcutta  
K C Dey & Sons, 80, Lower  
Chitpui Road, Calcutta  
Megaphone Co, 77-1, Harrison  
Road, Calcutta  
Mullick Brothers, 182, Dharam-  
tala St, Calcutta  
N B Sen & Bros, 11, Esplanade  
East, Calcutta  
Nagina Musical Products Co,  
18, Mirzapur Street, Calcutta  
Sealdah Gramophone Mart 165,  
Bowbazar Street, Calcutta  
Senola Musical Products Co,  
183-2, Dhurumtola St, Cal

**CENTRAL PROVINCES.**

A M Hasanji Rangwala, Katia  
Bazar, Amraoti  
Kale & Sons, Khare's Theatre,  
Wardha  
Sharman & Co, Andher Deo,  
Jubbulpore

**DELHI.**

Best & Co, Chandni Chowk,  
Chandni Chowk, Delhi  
Maharaja Lal & Sons, 703,  
Chandni Chowk, Delhi

**INDIAN STATES.**

Abdul Hussain Mohd Ali, Bob-  
ionka Mohalla, Kotah  
Cooch Beha Motor & Cycle Co,  
Cooch Beha  
General Phone Co, K E M Rd,  
Bikaner.  
Imperial Music Stores, Juna Top-  
khana, Indore City  
Joshi Bros, Rajkot Pura, Kathia  
war  
Krishna House, Chowk, Satna,  
Rewa State  
R Yogendra & Co, Bazar, Morvi,  
Kathiawar  
Rupraj Uderaj, K E M Road,  
Bikaner  
Surabani Music House, Agartala,  
Tripura State  
Vaidhamon P Shah, Shioff Ba-  
zai, Bhavnagar, Kathiawar

**KARACHI**

Imperial Gramophone Stores,  
Bunde Road, Karachi

**LAHORE.**

Babras Musical & General  
Agency, 20E, Mayo Road, Mo-  
ghalpura, Lahore

**MADRAS**

Gramophone Co, Ltd 122,  
Mount Road, P O Cathedral,  
Madras  
Jay-o-Phone Co, 2/15, Luckmudoss  
Street, P T Madras  
Mahomed Ebrahim & Co, 26-27,  
Rattan Bazar, Madras  
Music Mansions, 1-174, Broadway,  
Madras.  
Orr's Gramophone & Talks Ltd,  
Mount Road, Madras  
Spencers Ltd, Mount Road, Mad-  
ras  
Victorophone Co, 32, Mount Rd,  
Madras

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Dwivedi & Co., Katra Ahmadganj,  
Farrukhabad  
Gramophone Mart, Canning Rd.,  
Allahabad.

Mohd. Shafi Mohd Taqi, Najabad  
Prakash Brothers, Katia Ahmadganj, Farrukhabad  
Punjab Gramophone House,  
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Lucknow  
S Mohammed, Hafeez Md Siddik,  
Meston Road, Cawnpore  
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Habibson & Co., Commercial Rd., Ootacamund, Nilgiri  
Hindusthan Musical Products & Varieties Syndicate Ltd., 6-1, Akrua Dutt Lane, Calcutta  
Hutchin & Co., P O Box No 335, Mount Rd., Madras  
Maxitone Records Co., Ltd., Meston Rd., Cawnpore  
Megaphone Co., 77-1, Harrison Road, Calcutta

National Gramophone Record Mfg Co., Ltd., 110, Meadow St., Bombay  
Pioneer Records & Musical Varieties Ltd., 44, Chittaranjan Avenue, Calcutta  
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Viel-O-Phone Co., Mahim, Bombay 16

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Champaklal Morari & Co, 193,  
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Tamer Lane, Calcutta  
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Rd, Bombay B1 — 15, Chit-  
taranjan Ave, Calcutta  
D Harchandai & Co, Bunder  
Road, P O Box 87, Karachi  
Damji Mayji & Co, 177, Khoja  
Gully, Mandvi, Bombay  
Das & Co, 60, Sikdar Bagan St,  
Calcutta

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Maher Chemical Works, 49, Nai-  
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National Trading Co, Hornby  
Road, Fort, Bombay  
Pearl Industrial House, Saddar  
Bazar, Rawalpindi (Paste)  
Tombare & Sons, P O, Chinaval,  
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Row, Calcutta  
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Bombay  
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Bazar, Karachi  
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Exchange Place Calcutta  
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zar, Karachi  
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Bardan Gali Mandvi, Bombay  
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Karachi  
Kundu Mukhejee & Co, 14-1,  
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Luchminarain Kanoria & Co,  
134, Canning St., Calcutta  
Murari Lal Nayagunge, Cawn-  
pore  
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gunge, Cawnpore

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Thambu Chetty Street, George  
Town, Madras  
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Ghayas Cow Gut Export Co,  
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Amritsar

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M A Thapui & Co, Sialkot City  
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S. K. Sen & Co., 13, Kailas Ka-  
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 Ahmedally Jivabhai & Co, 86-88, Lohar Chawl, Bombay  
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 Ameibhoy Dosaji, Diamond Building, Lohar St, Bombay  
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 Dosaji Mahomedbhoy Lokhand-walla, Gulalwadi, Kika St, Bombay  
 Ebrahim Mulla Samsudin & Co, 12, Khoka Bazar, Bombay  
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Engineering Stores Trading Co, Hararwala Bldg, 104, Lohar Chawl, Bombay  
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 Jivraj & Vijlal, 122, Nagdevi St, Bombay  
 K Chimanlal & Co, 23-A, C P Tank Road, Bombay  
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 Mahimkar & Co, Ramchandra Bldg, Ardeshti Dady Street, Bombay  
 Master Mechanics, 32, Apollo St, Fort, Bombay  
 N Dhirajlal & Co, 26, C P Tank Road, Bombay  
 National Industrial Works, 280, Girgaum Rd, Bombay  
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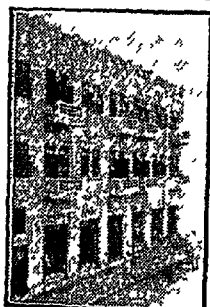
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P O & Dt Pabna  
Radha Krishna Hosiery Factory,  
Pabna  
Raylakshmi Hosiery Mills Ltd,  
108-1, Benares Road, Salkia,  
Howrah Phone Howrah 39  
Saha Bros Knitting Factory,  
Pabna  
Shreeram Hosiery Mills, 110,  
Dharamtola Rd, Salkia How-  
rah

**TRADE TERMS & ABBREVIATIONS :** Unique collection alphabetically  
arranged As. 6. INDUSTRY BOOK DEPT., Shambazar, Calcutta

Standard Hosiery, Tanbazar,  
Narayanganj  
Vivekanda Hosiery Mills, Pabna

**BIHAR**

Behar Knitting Factory, Moghal-  
pura St., Patna City  
Bihar Hosiery Mills, P O Box  
No 179, Jharla  
Jharla Knitting Mills, Jharla.  
Nandan Hosiery Factory, Mon-  
ghyr  
R N Shaw, Sadar Bazar, Dinapur  
Cantt  
Ramdass Bhagwanji Hosiery Mill,  
Jharla  
Standard Knitting Co., Dar-  
bhanga

**BOMBAY CITY**

Bombay Hosiery Works, Mogul  
Lane, Lady Hardinge Road,  
Matunga, Bombay  
Borivli Hosiery Factory, 206, D  
Champa Gally, Post No 2, Bom-  
bay  
Katrak Hosiery Works, 167, La-  
mington Road, Bombay 7  
Oomersee Kesowjee & Co, P B  
No 1, Bombay H O Cannanore

Br — Calcutta, Calicut, Madras,  
Karachi, Colombo

**BOMBAY PRESIDENCY**

Ahmedabad Hosiery Factory,  
Ahmedabad  
Belgaum Knitting Works, Shaha-  
pur (Belgaum)  
Bharat Knitting Works, Ltd, 661,  
Shukrawar Peth, Poona City  
Fine Knitting Co Ltd, Railway-  
pura, Ahmedabad  
Gordhan Hosiery Works, Borivli,  
Ingley Hosiery Works, Jalgaon  
Jayanti Hosiery Works, Outside  
Raipur Gate, Ahmedabad  
Karnatak Hosiery Factory, Sha-  
hapur, (Belgaum)  
Ladhawala Hosiery Factory,  
Ahmedabad  
Luxmi Hosiery Mfg Co Ltd,  
Akalkot, Sholapur  
Maharashtra Swadeshi Stores, 463,  
Budhwar Peth, Poona City  
Mahboob Knitting Works, Kaloo-  
pur, Ahmedabad  
Mehta Hosiery Works, Kacharia  
Pole, Richey Rd., Ahmedabad  
Southern Knitting Works, Ltd,  
Poona

# **Borivli Hosiery Factory.**

*Proprietors,*

**Messrs. Gordhandas Thakersey,**

Factory **BORIVLI, (B B. & C. I. Rly).**

Telephone —84035

Office : 63, **CHAMPAGULLY, - - BOMBAY.**

Telegram —“INDOJAPAN”

Telephone —26414

**Manufacturers of**

**HIGH CLASS HOSIERY GOODS.**

Star Knitting Co, N1 Potalia,  
Talas, Ahmedabad

### CALCUTTA

Adaisha Knitting Coy, 129,  
Dharamtolla St, Calcutta  
Annapurna Hosiery Co, 31, Ram  
Kamal St, Kidderpore, Cal  
Banga-Lakshmi Hosiery Mills,  
58-1A, Bariackpore Trunk Rd,  
Calcutta  
Basanti Hosiery Mills, 7, Marcus  
Square, Calcutta  
Bengal Hosiery Mills, 90-1, Hazra  
Rd, Calcutta  
Bhabani Hosiery Mills, 24-B,  
Sua 1st Lane, Beliaghata, Cal  
Bharat Lakshmi Hosiery Mills, 4,  
Beltola Rd, Kalighat, Cal  
Bharat Mata Hosiery Factory, 48,  
Anath Nath Deb Lane, Belgachia,  
Calcutta  
Calcutta Hosiery Mills, 12-1,  
Bondel Rd, Ballygunj, Cal  
D N Bose's Hosiery Factory,  
36-1A, Sarkar Lane, Calcutta.  
Deshbandhu Hosiery Factory,  
100A, Garpar Rd, Calcutta  
East India Hosiery Mills, 84A,  
Bondel Rd, Calcutta  
G. S Emporium Limited, 47-A,  
Chittaranjan Avenue (South),  
Calcutta B1—Cooch Behar &  
Jalpaiguri (Mg Agents—Bharat  
Hosiery Mills Ltd)  
Imperial Hosiery, 27, Tehpara  
Lane, Calcutta  
Jhamapuri Hosiery Mills, 3,  
Brojonath Mitter Lane, Cal  
Kalighat Hosiery Factory, 231,  
Rash Behari Avenue, Calcutta  
Kanto Hosiery, 55-3, Manicktola  
Street, Calcutta  
Kapoor Hosiery Factory, Ltd,  
8, South Sinthee Rd, Calcutta

Kidderpore Hosiery Mills, 2,  
Ashu Babu Lane, Calcutta  
Kothari Hosiery Mill, Chaulpatty  
Rd, Beliaghata, Calcutta  
Kusum Hosiery Mills, 81, Talpu-  
kuri Rd, Beliaghata, Calcutta.  
Labouri Hosiery Factory, 87-1,  
Talpukei Rd, Calcutta  
Lake Hosiery, 21, South End  
Park, Ballygunj, Calcutta  
N Bose's Beliaghata Hosiery Ltd,  
1, Canal East Bye Lane, Cal  
Napier Hosiery Works, 70-3, Tal-  
pukur Rd, Beliaghata, Cal  
Razak Hosiery Mills Ltd, 32,  
Ezia Street, Calcutta  
S C Lahiri & Co, (Superb Ho-  
siery), 88, Cross St, Calcutta  
Saboo Hosiery Factory, 33B, Jaha-  
tolla Street, Calcutta  
Shree Ram Hosiery Mills, 75,  
Buitolla Street, Calcutta  
Sun Knitting Mills, 109, College  
Street, Calcutta

### DELHI

Delhi Hosiery Mills, 785, Nai  
Basti, Buri Bastion Road,  
Delhi (Manufacturers of the  
famous 701, Koh-i-Noor Socks  
"Swaraaj" Fine Vests "Jawahar-  
kool" summer wear)  
M A Amroha Hosiery Works,  
Gali Qasim Jan, Delhi  
Western Hosiery & General  
Mills Ltd, 142, Tehwala Road,  
Delhi  
Zakin Hosiery Works, Sadai Ba-  
zar, Delhi

### INDIAN STATES.

Dass Bros, Junagadh, Kathiawar  
Ganeshi Lall & Sons, Jodhpur  
Kashmir Hosiery Factory, Sina-  
gai, Kashmir

## D. N. BOSE'S HOSIERY FACTORY

Our Special Products :—

PELICAN SHIRT  
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FANCY-KNIT  
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HIMANI  
SUMMER-BREEZE  
SUPER-FINE  
SHOWELL  
COOL-WEAR  
GREY SHIRT

AS WELL AS PLAIN & PERFORATED BANIANS

For neatly durable & best quality genjee—Ask for above renowned  
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Factory —36/1 A, Sarkar Lane, Calcutta.

'Phone 6056

Kashmir Knitting Co, Jammu,  
Kashmir  
Mahajan Bios, Indore  
Mathradas Nagados, Bazar,  
Wadwan Camp, Kathiawar  
Sri Krishnarajendra Mills Ltd,  
Bangalore Rd, Mysore

**KARACHI.**

G S Punjabi & Co, Lalan Mar-  
ket, Karachi

**LAHORE.**

Lano Knitting Mills, Multan Rd,  
Lahore.  
Lajpat Hosiery Ltd, 54, The  
Mall, Lahore  
Tilak Hosiery Factory, Paper  
Mandi, Lahore.

**MADRAS CITY.**

Andhra Knitting Factory, 220,  
China Bazar Rd, Madras  
Central Hosiery Factory, 5,  
Savelimuthu St, Madras

**MADRAS PRESIDENCY.**

Calcut Hosieries Ltd, Calcut,  
Malabar.  
Chenoli Hosiery Factory, Cann-  
nore, Malabar.  
Christian Knitting Factory, Mer-  
kara Hill, Kankanadi P O,  
Mangalore  
Commonwealth Hosiery Factory,  
Balmatta Rd, Mangalore, S K  
Commonwealth Trust Ltd, Cali-  
cut, Malabar  
Devanga Knitting Works Co,  
Salem  
Knitting Factory, 'Srinivasa Vi-  
las,' Sanyasi Gunde Rd, Sa-  
lem  
Krishna Knitting Factory, Karur  
Lakshmi Villas Banian Factory,  
Salem  
Madura Knitting Co, 181, East  
Gate, Madura  
Malabar Hosiery Works, Peioke  
Malabar & Pioneer Hosiery, Ltd,  
Calcut.  
Modern Hosiery Works, Tanjore  
Omersee Kesowjee & Co, Camp  
Bazar, Cannanore  
Premier Hosiery Works, Ltd,  
Calcut, Malabar  
Rama Hosiery Works, Calcut

S P Palani Chettiar & Sons,  
Dhadbagapatti, Salem  
Sri Ramkrishna Knitting Fac-  
tory, Salem

**MERWARA.**

Kumar Ali Kadari, Dhan Mandi,  
Beawar, Merwar Dt

**PUNJAB.**

Abdelson Shawls & Woollen Fac-  
tory, Katrabhai, Amritsar  
Adya Hosiery Factory, Ludhiana.  
Ahlwala Hosiery Factory, Lu-  
dhiana  
Ambala Hosiery Factory, Ludhi-  
ana  
Anoop Hosiery Factory, Ludhiana.  
Avinash Hosiery Mills, Ludhiana  
Aziz Hosiery Factory, Jullundui.  
Beri Hosiery, Factory, Ludhiana.  
Bhakoo Hosiery Mills, Ludhiana  
Bhandari Brothers, Ludhiana  
Bharat Krishna Hosiery Mills,  
Ludhiana  
Bhaintendu Hosiery Works, Brah-  
ampur, Ludhiana  
Chand Hosiery Factory, Ludhi-  
ana  
Charan Hosiery Mills (Regd),  
Ludhiana Br—199-5, Harrison  
Road, Calcutta  
Chenab Hosiery Mills, Chopia  
Bldg, Ludhiana  
Dayal Bagh Hosiery Mills, Ludhi-  
ana  
Dhalwal Hosiery Factory, Ludhi-  
ana  
Durable Hosiery Factory, Ludhi-  
ana  
Fazlal Hosiery Works, Near Ry.  
Bridge & Octroi Post, Chhaoni,  
Ludhiana  
Ganga Hosiery Mills, Ludhiana  
Ghai Hosiery Factory, Ludhiana.  
Ghulati Hosiery Mills, Ludhiana.  
Gircha Hosiery Factory, Ludhi-  
ana  
Glorious Knitting & Weaving  
Mills, Ludhiana  
Hussain Hosiery Knitting &  
Lock Mfg Co, Ludhiana.  
Ideal Hosiery Works, Ludhiana  
Jagotta Hosiery Factory, Ludhi-  
ana  
Jain Bimal Hosiery Factory, Lu-  
dhiana

Methods of Imports and Exports are discussed in full in **TRADER'S  
MANUAL**. Re 1/4 Industry Book Dept, Shambazar, Calcutta.

Jwaber Hosiery Mills, Ludhiana  
 Karu Hosiery Factory, Ludhiana  
 Khalsa Himat Hosiery Factory, Ludhiana.

Kisore Hosiery Factory, Ludhiana.

Koura Hosiery Factory, Ludhiana

Krishna Hosiery Factory, Ludhiana.

M I Merlay Hosiery Factory, Ludhiana

M R Knitting Works, Ludhiana.

Madan Hosiery Works, Gupianwala.

Mahindoo Hosiery Factory, Julundur City

Mahia Hosiery Mills, Ludhiana

Malwa Hosiery Factory, Ludhiana.

Manmohanlal Om Prakash, Sanker Nathi Ram St, Ludhiana.

Marnot & Co, Dal Bazar, Ludhiana

Master Hosiery Mills, Jhang Maghiana

Mitra Hosiery Mills, Kesarganj, Ludhiana.

Mohindra Hosiery Works, Ludhiana

Mohini Hosiery Mills, Ludhiana

National Limited, Ludhiana

Nehal Chand & Co, P. B No 16, Ludhiana.

New Golden Hosiery Factory, Rawalpindi

Omega Knitting Works, Post Box No 9, Ludhiana

Oriental Knitting & Dyeing Mills, Ludhiana

Parbhat Knitting Works, Ludhiana

Paul Hosiery Mills, Ludhiana

Pearl Hosiery Mills, Ludhiana

Pioneer Hosiery Co, Ltd, Ferozepur Cantt

Piyush Hosiery Works, Husamuddin Street, Ludhiana

Public Hosiery Mills, Ludhiana

Punjab Hosiery Works, Bazar Sabunan, Amritsar

Raghunath Hosiery Factory, Ludhiana

Ratna Hosiery Factory, Ludhiana

Roshan Dhanda Hosiery Works, Ludhiana

Sagar Hosiery Factory, Ludhiana

Sahnan Hosiery Mills, Ludhiana

Salik Hosiery Factory, Ludhiana.

Sama Hosiery Mills, Ludhiana

Sani Hosiery Factory, Ludhiana

Sat Hosiery Factory, Ludhiana

Shahzada Hosiery Mills, Berhampur, Ludhiana

Sharma Hosiery Mills, Ludhiana

Shiv Hosiery Factory, Ludhiana.

Sodhi Bros, Knitting Works, Ludhiana

Sri Krishna Hosiery Factory, Ludhiana

Sund Hosiery Factory, Ludhiana

Br —199-5, Harrison Rd, Cal

Sunderson Hosiery Factory, Ludhiana.

Sutlej Hosiery Mills, Ludhiana.

Swadeshi Manufacturing Syndicate, Ludhiana.

Taj Wool House, Ludhiana

Thaper Hosiery Factory, Ludhiana.

Yogendra Knitting Mills, Rajpal Villa, Agarpura, Multan City

#### RAJPUTANA.

Usman Bros, Chhota Bazar, Sambar Lake

#### SIND.

Shivaldas Knitting Mills, Shikarpur

Sind Hosiery Mills, Sukkur

Sind Swadeshi Hosiery Mills, Miani Road, Sukkur

#### UNITED PROVINCES.

Benares Hosiery Works, Thatthel Bazar, Benares City

Benares Knitting, 40, Bhelupur, Benares

Cawnpore Woollen Mills, Civil Lines, Cawnpore

Dayalbagh Hosiery Mills Ltd, Dayalbagh, Agra

Feather Weight Hosiery Factory, Cawnpore

Fine Art Knitting Co 34, Muteewara, Meerut City

Gupta Bros, Ghaziabad

H G Misra & Co, Kalpi Road, Cawnpore

There is lot of money in Confectionery making Read MANUFACTURE OF CONFECTIONERY. Re. 1/12. Industry Book Dept, Calcutta.

Jugglal Kamlapat Hosiery Factory, Cawnpore  
 Kumaun Knitting Factory, Almora  
 Madan Hosiery Factory, Anwar-gunge, Cawnpore  
 Misra Hosiery Mills, Cawnpore  
 Northern India Knitting Works, 34 Crommelin Rd, Lucknow  
 P L Nanakashi & Sons, Memorial Knitting House, Lucknow

Pucka Hosiery Mills, Civil Lines, Cawnpore  
 Rama Indian Knitting Works, 2055, Canning Street, Lucknow (Premier Manufacturers of High class woollen and cotton knitted goods in Northern India)  
 Singh Hosiery, Meerut, 149, Lala Ka Bazar, Meerut City  
 Woollen Hosiery Factory, Mahan Babar, Cawnpore

### HOSPITAL REQUISITES DEALERS.

Albhoy Valljee & Sons, P O Albhoy, Multan Cantt

Capital Science Laboratory, Works, Daryaganj, Delhi

Civil & Sanitary Engineering Co, Ltd, 11, Convent Road, Entally, Calcutta

Deformity Appliance & Hospital Stores, 3, College Sq East, Cal

G S Dugal & Co, Rawalpindi

Ghose Bose & Co, Mission Court, P-12, Mission Row Extension, Calcutta

Gordhandas Desai & Co, 305, Hornby Road, Bombay, Stephen House, Calcutta

Hospital Appliances Mfg Co, 48-5, Tangra Road, Calcutta

N Powell & Co, Ltd, Lamington Road, Bombay No 1

Ramchand Tara Chand, Near Jumma Masjid, Delhi

### HOTELS & BOARDING ESTABLISHMENTS.

#### ASSAM.

Gauhati Hindu Nivas, Gauhati

#### BENGAL.

Barisal Hotel, Station Ghat, Barisal

Central Hotel, Robertson Road, Darjeeling

Eden Sanatorium & Hospital Darjeeling

Hindu Boarding, P O, Chandpur, Dt Tipperah

Hotel Hillview, Kalimpong, Darjeeling (Vegetarian Indian Hotel)

Mt Everest Hotel, Darjeeling

Royal Hotel, Barrackpore, 24-Paiganas

Sailabas, Kalimpong

Snow View Hotel, Darjeeling

Swiss Hotel, Auckland Road, Darjeeling

Wallace Hotel, Station Road, Chittagong

#### BIHAR.

Aiya Nibash, Ranchi  
 Hotel Oriental, Puruha

Novelties, Santi-Kunja, Church Road, East Gaya

Sankoo Hotel, Hazaribagh Road Station, Hazaribagh  
 Shanti Nibash, Ranchi

#### BOMBAY CITY.

Aiya Nivas Hindu Hotel, Kilachand Mansion, Opp Vithalwadi, Kalbadevi Road, Bombay

Aiya Pathikashram, Dwaikadas Mansion, Near Parthana Samaj, Girgaum Back Rd, Bombay

Bentley's Hotel, Dhaniya Mahal, next to Yacht Club, Apollo Pier Road, Bombay

Bekeley Court Hotel (Residential), Deepak Mahal, Near Bombay Club, Marine Drive, Bombay

Carlton Hotel, 7, Dhaniya Mahal, Apollo Bunder, Bombay

Cecil Hotel, Lansdowne Road, Apollo Bunder, Bombay

Coronation Dubai Hotel, 112-114, Abdul Rehman St, Bombay

Cyprus Hotel (For Parsis), Khetwadi Back Road, Bombay 4.

There is lot of money in Confectionery making. Read MANUFACTURE OF CONFECTIONERY. Re. 1/12. Industry Book Dept., Calcutta.

Elphinstone Hotel, Gulshan Chambers, Hornby Road, Bombay.  
 Grand Hotel (Bombay), Ltd, Ballard Estate, Bombay  
 Green's Hotel & Restaurant, Apollo Bunder, Bombay  
 Hotel Majestic, Esplanade, Museum, Bombay  
 Hotel Marina, Sona Mahal, Marine Drive, Bombay  
 Hotel Regal, 233, Fiere Road, Bombay  
 Hotel-Rex Resort, Nasik Chambers, Opp European General Hospital, Fiere Road, Bombay  
 Hotel Ritz, Church Gate Reclamation, Bombay  
 Indian Hotels Co, Ltd, Apollo Bunder, Bombay.  
 Indra Bhuvan Hindu Hotel, Devkaran Mansion, Princess St, Bombay  
 Madhavashram, near Gugaum Police Court, Charni Road, Bombay  
 Tajmahal Hotel, Apollo Bunder, Bombay

**CALCUTTA.**

A Firpo Ltd, 18-2, Chowringhee Road, Calcutta  
 Amjadia Hotel, 8, Zakariah St, Calcutta  
 Amritsar Hindu Hotel, 37, Moti-Seal Street, Calcutta  
 Aiyā Nibas, 134-1, Lower Circular Road, Calcutta  
 Avenue Hotel, 35, Princep St, Calcutta  
 Bristol Hotel, 2, Chowringhee Rd, Dharamtollah, Calcutta  
 Calcutta Friends Hotel, 14, Harrison Road, Calcutta  
 Central Calcutta Hotel & Restaurant, 43, Bentick St, Calcutta  
 Central Hindu Hotel, 90, Chittanianjan Avenue South, Calcutta  
 Chung Wah, Beed Mansion, 13A, Central Avenue, Calcutta  
 City Boarding, 27, Harrison Rd, Calcutta  
 Continental Hotel, 12, Chowringhee, Calcutta  
 Fancy Hotel, 113, Grey St, Calcutta  
 Grand Hotel Ltd, 15, Chowringhee, Calcutta

Great Eastern Hotel, Ltd, 1, 2, Old Court House St, Calcutta  
 Maharashtra Niwas, 85/1/1, Beltola Road, Bhowanipore, Calcutta  
 Majestic Hotel, P124, Scheme, Dharamtolla, Calcutta  
 New Tajmahal Hotel, 8, Upper Circular Rd, Calcutta  
 Palace Hotel, 31-2, Harrison Rd, Calcutta  
 Punjab Hindu Hotel, 144, Harrison Road, Calcutta  
 Rainbow Club, Residential Boarding, 175, Bow Bazar Street, Calcutta  
 Royal Hindu Hotel, 99, Lower Chitpore Road, Calcutta  
 Sanghila Restaurant, adjacent-Chitra Cinema, 82-4/4E, Coin wallis St, Calcutta  
 Sealdah Hotel, 128, Lower Circular Road, Calcutta  
 Spence's Hotel Limited, 4, Wellesley Place, Calcutta.  
 Tower Hotel, 27, Upper Circular Road, Calcutta

**CENTRAL PROVINCES.**

Non Vegetarian, Mahkuwa. Khadwa, C P

**DELHI.**

Agia Hotel, Daryagunj, Delhi  
 Apollo Hotel, Nicolson Rd, Kashmir Gate, Delhi  
 Associated Hotels of India, Ltd, Alipore Road, Delhi  
 Coronation Hotel, Chandni Chowk, Delhi  
 Delhi Punjab Hotel, Fatehpuri, Delhi  
 Great Eastern Hotel, Queen's Rd, Delhi  
 Hotel India, Connaught Place, New Delhi  
 Hotel Regal, Queen's Road, Delhi  
 Maharaja Hotel, Queen's Road, Nahar Saadat Khan, Delhi  
 Punjab Hindu Hotel, Fatehpuri Bazar, Delhi  
 Taj Mahal Hotel. Nahar Sadat Khan, Delhi

**INDIAN STATES.**

Central Hotel Lavelle Road, Bangalore  
 Khaja Hotel, Near Railway Station, Secunderabad, Deccan

**COMPLETE TAILORING**—A guide to cutting and tailoring of Gents', Ladies' and Children's garments Rs. 3/8. Industry Book Dept, Calcutta

Modern Hindu Hotel, Bangalore,  
Chikmagalur, Mysore  
Royal Islam Hotel & Bakery, Raj-  
kot Pura, Kathiawar

**KARACHI**

Killainey Hotel, Mairder's Palace,  
Karachi  
Sahiti Hotel, Outram Road, Ram-  
baugh Garukhatta, Karachi

**MADRAS CITY.**

Connemara Hotel, Binnya Road,  
Mount Road, Madras  
Crown Hotel, 7, Umpherson St.,  
G T, Madras  
Modern Hindu Hotel, 53, General  
Patters Rd, Madras  
Sri Venkateswara Students' Hos-  
tel, Triplicane, Madras

**MADRAS PRESIDENCY.**

Bangalore Hotel, Chicacole, Viza-  
gapatam Dt  
Diamond Lodge, Big Conjee-  
veram  
Malabar Hotel, Tanuku, W Goda-  
vary  
Modern Hindu Hotel, 2, Western  
Boulevard Road, Trichinopoly

**ORISSA**

Lodge Hotel, Chakratirtha Road,  
Sea Beach, Puri  
New Hindu Hotel, Bhubaneshwar  
Santibhas Hotel, Sea Beach,  
Puri  
Sea View Hotel, Puri  
Seaside Hotel, Gopalpur, Ganjam  
Victoria Club Hotel, Sea Beach,  
Puri

**HURRICANE LANTERNS MANUFACTURERS.**

Eastern Hurricane Mfg Co, Ltd,  
1, British Indian Street,  
Calcutta

Ogale Glass Works, 6, Ogale-  
vadi,, Satara

**ICE MACHINERY DEALERS.**

Economy Engineering Co, Post  
Box No 129, Bawa Dunga Singh  
Bldgs, Lahore  
Ice Machinery Mart, 18-2, McLeod  
Road, P. O Box 173, Lahore

**PUNJAB.**  
**Amritsar Hotel**, Albert Road,  
Opposite G. P. O., Amritsar  
Associated Hotels of India, Ltd.,  
Simla  
Clubview Hotel, Jullundur City

**UNITED PROVINCES.**

Alliance Hotel, 27, Canning Road,  
Allahabad  
Bellerere Hotel, Canning Road,  
Cawnpore  
Bengal Hotel, 1, Cawnpore Road,  
Chaubagh, Lucknow  
Bengal Lodge, Chipitola, Agia  
Bengal Lodge, Ram Narain  
Bazar, Cawnpore  
Calcutta Hotel, Chipitola, Agia  
Empress Hotel, Chapel Street,  
Meerut Cantt  
Garhwal Hotel, Najbabad  
Gresham Hotel, New Survey Rd.,  
Dehra Dun  
Hotel Hindusthan,, Nainital  
Hotel Kashmere, Meston Road,  
Cawnpore  
Hotel Metropolis, Nainital  
Indian Hotel, 177, Abu Lane, Meer-  
ut Cantt  
Modern Hotel, Muttra  
Muslim Hotel, Moulunge, Cawn-  
pore  
Park Hotel, Bhimtal, Nainital  
Ratan Hotel, Meerut & Dehra  
Dun  
Royal Hotel, 12, Cantonment,  
Bareilly  
Royal Hotel, E. C. Road, Dehra  
Dun  
Savoy Hotel, Mussoorie

Oriental Metal Industries Ltd, 34,  
Chittaranjan Avenue, Cal  
**T. E. Thomson & Co., Ltd.,**  
9, Esplanade East, Calcutta.  
Factory —D1 Satya Road, Kid-  
derpore

**COMPLETE TAILORING**—A guide to cutting and tailoring of Gents',  
Ladies' and Children's garments. Rs 3/8 Industry Book Dept, Calcutta.



M S Vernal & Co, Bhaiat Insurance Bldg, Central Ave, (South), Post Box 2320, Cal  
Massey's (India), Ltd, Royapuram, Madras

Sulzer Bros, Ltd, 8, Clive St, Calcutta.  
Turner Hoare & Co, Ltd, Gateway Bldg, Apollo Bunder, Bombay

### ICE MANUFACTURERS.

#### AJMER-MERWARA.

Ajmer Ice Factory & Foundry Works, Ajmer  
Prag Ice Factory, Ajmer.

#### ASSAM.

Golam Rahman & Sons, Gauhati

#### BENGAL.

Kanhaya Lal Dalal Ram, Asansol  
Rajbari Ice Factory, Rajbari, Faridpore  
United Ice Agency, Jessore Rd, Patipukur, 24-Pargis

#### BIHAR.

Dhanbad Ice Factory, Dhanbad, Manbhum.  
Falgo Ice Factory, Gaya.  
Jamalpoore Ice Co, 1, Tank Sq, South, Jamalpoore  
Jamshedpur Ice Factory, Jamshedpur.

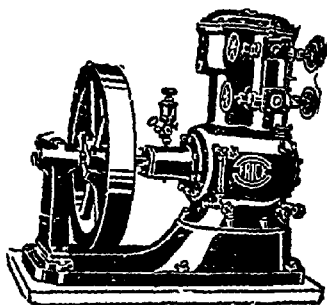
Patna Ice Factory, Patna  
Prag Distilled Water Ice Factory, Jharia.  
Sree Mahabunjee Ice Factory, Darbhanga

#### BOMBAY CITY.

Bhaktawar Ice Factory, Kumbhawa, Dadai, Bombay  
Bombay Crystal Ice Works, 179, Motisha Lane, Mazagaon, Bombay.  
Bombay Ice Mfg Co Ltd, 12, Cochun St, Ballard Pier, Fort, Bombay  
City Ice Supplying Co, Fort Depot, Near Next to Kaiser-i-Hind Printing Press, Bazar Gate St, Bombay  
Dhunjibhoy's Ice Factory, Mount Rd, Mazagaon, Bombay  
Lightfoot Ice & Cold Storage Co, Hansraj Lane, Byculla Bridge, Bombay

## "FRICK"

### Ice Making and Refrigerating Machinery.



Used with profit in hotels, clubs, hospitals, markets, ice plants, cold storages, dairies, restaurants, theatres, ships, and 100 other places.

Let our Engineer, trained at the Frick factory in the U. S. A., advise you on a cooling plant to suit your needs.

*Distributors:—M. DHAR CO., LTD.,*

**175, RASH BEHARI AVENUE, CALCUTTA.**

Siddeley Ice Manufacturing Co,  
Arthur Rd, Bombay

### **BOMBAY PRESIDENCY.**

Agarwal Distilled Water Ice Factory, Dudheshwar Rd, Ahmedabad

Badani Ice Factory, Station Rd, Surat

Hillwala Ice Factory, Station Rd, Surat

Imperial Ice Factory, Chowk Bazar, Surat

Maharaja Ice Factory, Kagdiwad, Navsari, Surat

Maneck Ice Manufacturing Co, Ahmedabad

Navsari Electric Ice Factory, Navsari B B & C I Railway, Tele Add —Ice, Factory —Dudhia Talao, Navsari

Surat City Ice Factory, Rugnathpura, Surat

Taher Ice Factory, Allaya's Vadi, Surat

### **CALCUTTA.**

Bengal Ice Company Ltd, 12, Munshigunge Rd, Kidderpoie, Calcutta

Calcutta Ice Association Ltd, 103, Clive St, Calcutta

Crystal Ice and Aerated Water Factory, 50, Tangra Road, Entally, Calcutta

Ganga Ice Factory & Co, 238, Manicktola Main Rd, Cal

Lightfoot Refrigeration Co, Ltd, 138, Beliaghata Main Rd, Cal, Byculla Bridge, Bombay

### **CENTRAL INDIA.**

Gillan Ice Factory, Post Office Rd, Mhow

Jamsetjee & Co, Bazar Guard Rd, Mhow

### **CENTRAL PROVINCE**

Bhargava Ice Factory, Jubbulpoie

George Ice Factory, Nagpur

### **DELHI**

Krishna Ice Factory, P O Bula Lines, Delhi

Rahman Ice Factory, Delhi

### **INDIAN STATES**

Crystal Ice Factory, V-14, Banerjee Road, Ernakulam, Cochin

Crystal Ice Manufacturing Co, 1, Tank Rd, Bangalore

Gwahor Ice Factory, Gwahor

Juma Ram Ice Factory, Bhabran Bazar, Bahawalpur

Ram Saroop Ice Factory, Abu Rd, Sirohi State

Shri Narsingh Ice Factory, Bikaner

### **KARACHI.**

Crystal Ice and Cold Storage Co, Kutcheery Rd, Karachi

Solid Ice & Cold Storage Co, Lawrence Rd, Karachi

### **LAHORE.**

Ganga Ice Factory, Lahore Cantt

### **MADRAS CITY.**

City Ice Manufacturing Co, 12, General Patters Rd, Madras

Crystal Ice Manufacturing Co, 1-22A, Vepery High Rd, Madras

### **MADRAS PRESIDENCY.**

Radha Ice Co, Radha Bank Bldg, Chalapuram, Malabar

South Indian Royal Ice Factory, Negapatam, Tanjore

United Ice Factories Ltd, Calcut, Malabar

### **N W F PROVINCE**

Frontier Ice Factory & Cold Storage, Ramdass Gate, Peshawar City

### **ORISSA.**

Bhima Ice Factory, Kalupara Ghat, Chilka Lake

### **PUNJAB**

A Ardesher & Co, Amritsar

Bharat Mills & Co, Grand Trunk Rd, Wazirabad

Dial Ice Factory, Nowshera

Fateh Chand Chiranjilal Ice Factory, Hissar

Gian Chand, Bhalwal (Sargodha). Ice & General Flour Mills Co, Ltd, Sargodha

Ludhiana Ice Factory, Ludhiana

Punjab Transparent Machine Ice Factory & Atta Mills, Ambala

Rawalpindi Ice Co, Rawalpindi

Saifi Ice Factory, Mayo Road, Rawalpindi

Sargodha Ice Factory Ltd, Block  
No 15, Sargodha  
Shankar Dass & Sons, Feroze-  
pore City

**SIND.**

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Sukkur  
Paisumal Hemandas Ice Factory,  
Sukkur  
Santidas Dewandas Ice Factory  
Sukkur  
Seth Gulomal Matumal Ice Fac-  
tory, Sukkur

**UNITED PROVINCES.**

Allahabad Ice Co, Allahabad  
Benares Ice Factory, Benares  
Bhagwan Ice Factory & Oil Mills,  
Himmatganj, Allahabad

Bhargava Ice Factory, Civil Lines,  
Cawnpore B1 —Lucknow &  
Jubbulpore

Ferozabad Ice Mfg Co Feroza-  
bad, Agra

Kamala Ice Factory, Coopergunge,  
Cawnpore

Krishna Ice Factory, Belanganj,  
Agra

Madan Ice & Aerated Water Co,  
8, Ashley Hall, Dehra Dun

Meerut Ice Factory, Meerut

Ramchand Luchmandas Ice Fac-  
tory, Water Works Rd, Aish-  
bag Lucknow

Rohilkhand Ice Co, Ltd, Behari-  
pur, Bareilly Factory Budaun

Victor Ice Factory, Bnd Ghat,  
Gorakhpur.

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putana)

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Rd, Chittagong  
Oriental Commercial Society, Ra-  
shangiri, Chittagong  
S C D C Ghosal, Station Road,  
Chittagong

**BIHAR.**

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pur, Patna  
Krishna Dutt & Co, Hindmarsh  
Rd, Muzaffarpur

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Rd, Bombay  
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Bombay  
Alibhoy Bhanji, Bhimpura, Don-  
gi St, Bombay.  
Alsales, Ltd, Lalgir Chambers,  
58-60, Tamarind Lane, Fort,  
Bombay  
Ambalal Muljibhai Shah, 332,  
Katha Bazar, Bombay

Anant Shivaji Desai Topiwala,  
Lamington Rd, Bombay.

Ardeshti Piroshaw Tata, 70,  
Khand Bazar, Mandvi, Bombay  
3

Asiatic Fur & Carpet Store, 2,  
Waterloo Mansions, Opp "Re-  
gal," Fort, Bombay B1 —Bom-  
bay Bldg, Mayo Road, Lahore

Associated Trading Agency of In-  
dia, Sayee Bhuvan, 141, Lohar  
St, Bombay

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shah Mehta Road, Fort, Bom-  
bay.

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Ld Hornby Rd, Bombay

Burjor Ardeshti & Co, Chanda  
Ranj Bldg, New Baidan  
Lane, Vadgadi, Mandvi, Bom-  
bay

Cential Trading Co, 81, Cawasji  
Patel St, Bombay

Chandrakant Tapidas & Co, 78-  
80, Mirchi St, Mandvi, Bombay

Charan Master & Co, Bank of In-  
dia Bldg, Kalbadevi Rd, Bom-  
bay.

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Chunilal A Kapadia, Rahaman Building, Churchgate St, Bombay

Clarke & Smith (India) Ltd, Esmail Building, Hornby Road, Fort, Bombay

Deviprasad Khandelwal & Co, Hornby House, 269, Hornby Rd, Bombay

Dubash, Freies & Co, Victoria Bldg, 3, Pairsi Bazar St, Fort, Bombay

E F Kavalana & Co Mistri Building, Bomanji Master Rd, New Silk Bazar, P O Kalbadevi, Bombay 2

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Fazalbhai Ibrahim & Co, Ltd, Ismail Building, Hornby Road, Bombay

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Hansraj Hairam & Co, Gresham Bldg, Flora Fountain, Fort, Bombay

Hanulal Harakchand Co, 129-131, Bazar Gate St, Bombay

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Jeena & Co, 10, Churchgate St, Fort, Bombay

K Chhotalal & Co, 74-76, Kazi Syed St, Bombay

Karia Brothers, Princess St, Sethna Building, Bombay 2

M Barma & Co, 24, Elphinstone Circle, Fort, Bombay

Mangaldas & Co, Masjid Bunder Rd, Gaya Bldg, Bombay 3

N C Anandwala & Co, Narayan Building, 38-42, Shamsett St, Bombay

N Karamchand & Co, Kishore Bldg, 521, Kalbadevi Rd, Bombay

**P. N. MEHTA & CO.,** 324, Hornby Rd, Fort, Bombay

Pabaney & Sons, Ltd, 14, Hamam St, Fort, Bombay

R M Jassawalla & Co, 105, Apollo St, Fort, Bombay

R N Panjvany, Arab House, Bhowada Rd, Bandia, Bombay No 20

Rajanbhai Meherally & Son, 47, Pydhoni Road, Khadak, Bombay 9

Sarabhai & Co, 7, Sri P Mehta Rd, Bombay

Sarkari & Co, 286, Princess St, Bombay 2

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Vadilal R Shah, Lalji Mansingh Building, Lohar Chawl, Bombay 2

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war  
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dal P O Sir Ranbiganj, Si-  
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Nusserwanjee & Co, Machi Miani  
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Rochaldas Gidoomal & Co, P O  
Box 170, Bunder Rd, Karachi  
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Bazar Rd, Madras  
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Madras  
East India Export Co, 15, Sem-  
budoss St, G T, Madras  
K S Shivji & Co, 178-79, Broad-  
way, Madras Br —Bombay,  
Calcutta & Karachi  
M G Motiwala & Co, 29, Naini-  
appa Naick St, Park Town,  
Madras  
South Indian Export Co, McLean  
St, Madras  
T S Chari & Co, Post Box 246,  
Madras

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lary  
Don Bosco & Co, Punnaikkayal,  
Tinnevely Dist  
East India Exporting Co, Vaikun-  
tapuram, Rajahmundry, S I  
Eastern Commercial Co, Porto-  
Novo, S Arcot  
Indo-Commercial Co, Tanjore S  
India  
K T Parker & Co, Narsapur,  
W Godavary, S India  
Kannan & Co, Tuticorin, S I  
M A Jamil & Bros, Bezwada.  
M M Shanbhogue & Son, Market  
Rd Mangalore, S Kanara  
S K Ramalingham Chettier,  
Coimbatore  
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Continental Trading Corporation, Rawalpindi  
Imperial Trade Corporation, North Circular Road, Rawalpindi  
India Importing Co (Regd), Katia Bhai, Amritsar  
Industrial Exchange Corporation, Regd Sialkot City, Punjab Br—Lahore City  
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Nayyer Bros Rupai, Ambala  
P M Wishkhor & Co, Bazar Jangi Shiwala, Amritsar  
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Haji Mahboob Buksh Ehsan Elahi, Meston Rd, Cawnpore  
M N & Co, Hatia, Cawnpore  
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Manjhaul Indigo Concern, Manjhaul, Monghyr

Motipuri Indigo Concern, Motipuri, Muzaffarpur  
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Secretariat Bldgs, Bombay  
Bombay Swadeshi League, 196D,  
Garwadi, Gurgaum, Bombay  
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formation Bureau, The Univer-  
sity, Fort, Bombay  
Canadian Govt Trade Commis-  
sioner, P O Box 886, Bombay  
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tractor Building, Ballard Estate,  
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House, Fort, Bombay  
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All India Inst of Hygiene & Pub-  
lic Health, 110 Chittaranjan  
Avenue, Calcutta  
Bengal Govt Electrical Labora-  
tory, 1, Harish Mukherjee Rd,  
Calcutta  
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sociation, 5, Government Place  
North, Calcutta  
Chief Insp of Factories, 5,  
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tric Inspector, Govt of Bengal,  
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 Heman & Co, Ramchandria Bldg, Carnac Road, Bombay

Inks Manufacturing Co, Ltd, Ramwadi, Kalbadevi, Bombay  
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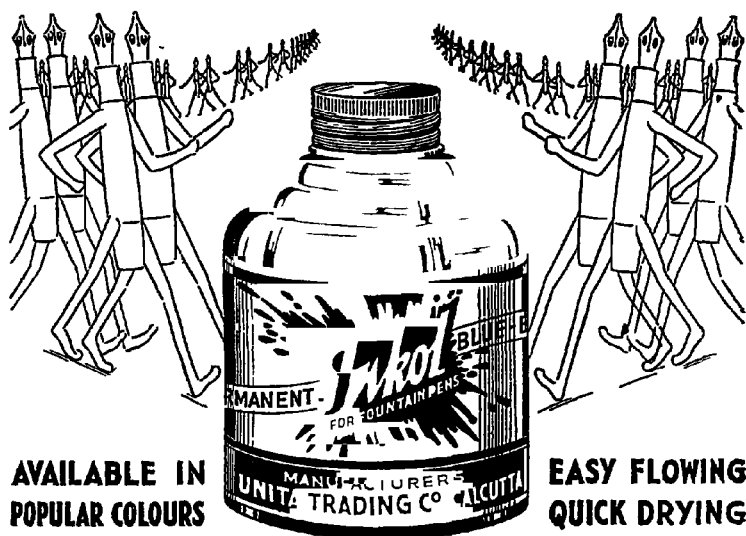
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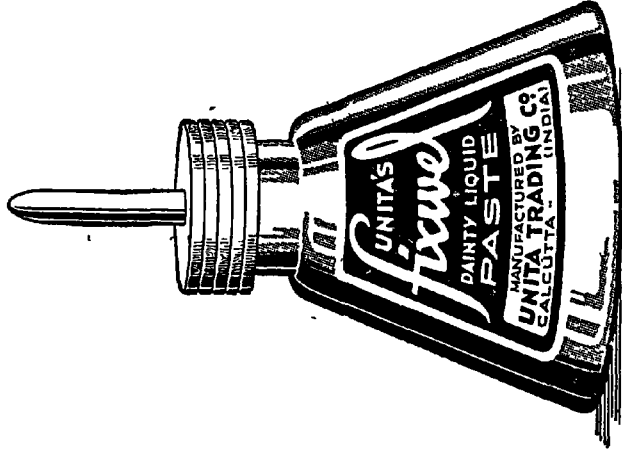
**:: Apply Thinly ::**

**Also Use—UNITA'S LIQUID GUM**

*Manufacturers*

**UNITA TRADING CO.**

**76, LOWER CIRCULAR ROAD - - CALCUTTA  
RING UP CAL. 335**



Chemical Association (Calcutta),  
Ltd, 55, Canning Street, Cal  
Chem-Products Co of India, 12,  
Tamer Lane, Calcutta

Dhar Bros, 82, Harrison Road,  
Calcutta (Ruby)

Dye Products Company, 19,  
Strand Road, Calcutta

I S S D, 95-B, Chittaranjan  
Avenue, Calcutta (Webster's)

Imperial Ink Manufacturing Co,  
2-A, Kasi Mitter Ghat St, Cal

J B Dutt & Co, 2 Ram Krishna  
Lane, Calcutta

Kohinoor Chemical Works, 21,  
Jadu Pandit Road, Calcutta

M Bagh & Co, 12, Jackson Lane,  
Calcutta

Mantra Brothers & Co, (Sulekha  
Works), Kasba Road, (Bally-  
gunge), P O Dhakuria, Calcutta  
Branch —Raneebazar Road, P  
O Ghoiamara, Rajshahi

N Dutt & Sons, Sreemanipara,  
Bainagore, Cal (Marking Ink)

P M Bagchi & Co, 19 & 19-1  
Gulu Ostagan Lane, Calcutta

Poly Products, 56/1C, Sree Gopal  
Mallick Lane, Bowbazar, Cal  
Ram Krishna Ch Works, 79-4-2D,  
Raja Naba Kissen St, Calcutta  
Rangoon Miscellany, 12, Tamer  
Lane, Calcutta

Ray Brothers, 78, Harrison Rd,  
Cal Factory —65-1, Harrison  
Road, Calcutta

Skolar Ink Co, 14-2, Old China  
Bazar Street, Calcutta Phone  
Cal 967.

Winner Ink Co, 17, Hara Chan-  
dra Mallick Street, Calcutta

#### CENTRAL PROVINCES.

Govind Jival Bhargava & Co,  
Jubbulpore

#### DELHI

A Abdul Waheb Mohd Said,  
Sadda Bazar, Delhi

#### INDIAN STATES.

Bharathy Ink Works, Tirvan-  
drum, Tiavancore

Jain's Ink Depot, 27, Beat, Banga-  
lore (Writing Fluids)

INSIST YOUR  
REQUIREMENTS UPON



## RAVEN

WRITING INK and  
FOUNTAIN INK

(In all shades)

## ADISOL

OFFICE—PASTE

## SEALAX

SEALING—WAX

## STAMP

RUBBER-STAMP Ink



## POLY PRODUCTS

CALCUTTA. PHONE B.B.510

Nandkushore & Co, Mahamandir,  
Jodhpur.

Shailika Industrial Works,  
(Regd.), Jammu (Tawi)

Solar Ink Stores, 97, Commercial  
St., Bangalore

Vishnu Industrial Works, Vishnu  
Nivas, Ladwada, Baroda

#### KARACHI

Azad Ink Factory, Burns Road,  
Rambagh, Karachi

Jamshed Ink Manufacturing Co.,  
Machi, Miami Rd., Karachi

#### MADRAS CITY

Dayalbagh Ink Factory, 1, Kathi-  
wakkam High Rd., Madras

Krishnaveni Inks, 141, Govind-  
appa Naick St., G. T., Madras

Raman Inks Co., Arni Road, Vell-  
gu, G. T., Madras

#### MADRAS PRESIDENCY

Andhra Industrial Stores, Buck-  
inghampet, Bezwada

Bharati Ink Works, Governorpel,  
Bezwada

Golden Industry, 933, Sowiashtia  
Big Street, Kumbakonam, S. I.

Kohinur Industrials, Kallianpur,  
S. Kannaia.

Lakshmi Chemical & Perfume  
Works, Pedapatnam, P. O.  
Nagaram, E. Godavari  
Standard Manufacturing Co.,  
Kumbakonam, S. India

#### PUNJAB.

Indian Ink & Industry Works,  
Rasul Manzil, Chaman Street,  
Ludhiana

N. R. Pitam Ink Manufacturer,  
Gojra

Standard Industrial Works, Hall  
Gate, Amritsar.

#### UNITED PROVINCES

Dhanne Khan Sahibgunj, Fyza-  
bad

Gurukul Chemical Industries,  
P. O. Gurukul Kangri, (Hard-  
war), Saharanpur Dt.

Lunai Works, Allahabad

Modern Industrial Works, 508-9,  
Colonelgunj, Allahabad

Monarch Ink Mfg Co., Budaun  
Sharma & Bros., Gokalpura,  
Agra

Standard Ink Factory, Morada-  
bad

Union Piem Ink Supply Co.,  
Maithan, Agra

### INSECTICIDE MANUFACTURERS.

(See Disinfectant and Insecticide Manufacturers)

### INSURANCE COMPANIES.

Agarwal Assurance Society Ltd,  
Kutchery Rd., Ajmer.

Alliance Assurance Co., Ltd., 2,  
Haie St., Calcutta

All-India Hindu Mutual Benefit  
Society, Ltd., Mahamandal  
Bldgs., Benares Cantt

American Foreign Insurance As-  
sociation, Bl. Clive Bldgs., 8,  
Clive St., Calcutta

Andhra Insurance Co., Ltd.,  
(1925), Masulipatam Also 3,  
Chowringhee Sq., Cal

Angel's Insurance Co., Ltd., Con-  
naught Place, New Delhi.

Argus Insurance Co. Ltd., (1919),  
943-1, Gandhi Rd., Ahmedabad

Aiya Insurance Co., Ltd., 6 &  
7, Clive St., Calcutta

Aiyon Champion Insurance Co.,  
Ltd., Amar Bldg., Sir Phiroz-  
shah Mehta Road, Fort, Bom-  
bay

Aryan Life Association Society  
Ltd., 15, Bentinck St., Calcutta

Aryan Mutual Life Assurance  
Society Ltd., Bombay

Aiyasthan Insurance Co., Ltd.,  
Aiyasthan Bldg., 15, Central  
Ave., Calcutta

Ashok Insurance Co., Ltd., Rohim-  
toola House, 20, Homji Street,  
Fort, Bombay

Asian Assurance Co., Ltd., 47,  
North Veli St., Madurai, Asian  
Buildings, Ballard Estate,  
Bombay.

Asiatic Government Security Life  
Assurance Co., Ltd., 32-2, Sessa-  
dhi Road, Bangalore

**MANUFACTURE OF SOAP?** Read "MANUFACTURE OF SOAP."  
INDUSTRY BOOK DEPT., 22, R. G. Kar Road, Shambazar, Calcutta.

Associated India Insurance Co, Ltd, 9, Dalhousie Sq, Cal	Bombay Mutual Life Assurance Society Ltd, Fort, Bombay, Clive Bldgs, 8, Clive St, Calcutta
Associated Insurance Ltd, Head Office 44, King's Way, Nagpur	British India General Insurance Co Ltd, Mehta House, Apollo St, Bombay, 2, Old Court House Corner, Calcutta
Atlas Assurance Co Ltd, Dougal Rd, Ballard Estate, Bombay, 4, Clive Row, Cal	British Trade Insurance Co. Ltd, 8, Clive St, Calcutta
Balaise Fire Insurance Co Ltd, 47, Khongraputty St, Cal	Calcutta Accident Insurance Association Ltd, Royal Exchange Bldg, 2, Clive St, Calcutta
Bangalakshmi Insurance, Ltd, 9A, Clive St, Calcutta	Calcutta Fire Insurance Association, Ltd, Royal Exchange Building, 2, Clive St, Cal
Basanti Insurance Co, Ltd, 31, Ashutosh Mookherjee Rd, Cal	Calcutta Insurance Limited, 86, Clive St, Calcutta
Behar United Insurance Ltd, Behar Bank Bldgs, Patna	Caledonian Insurance Company, B2, Clive Bldgs, Clive St, Cal
Bengal Co-operative Insurance Society Ltd, 6, Clive Street, Calcutta	Century Insurance Co, Ltd, B3, Clive Bldgs, Clive St, Cal
Bengal Insurance & Real Property Co, Ltd, 116, Vivekananda Rd, Calcutta	Champion General Insurance Co. Ltd, Hornby Road, Fort, Bombay
Bengal Mercantile Life Insurance Co, Ltd, 1, Mission Row, Cal	China Fire Insurance Co, Ltd, 8, Clive St, Clive Bldg, Cal
Bhagya Lakshmi Insurance Ltd, P229, Lansdowne Rd Extension, Calcutta	Christian Mutual Insurance Co Ltd, Christian Mutual Bldgs, Lahore
Bharat Insurance Co, Ltd, Bharat Bldgs, Lahore, 3, Chittaranjan Avenue, Calcutta	Clive Insurance Co Ltd, 8, Clive St, Calcutta
Bharat Kalyan Life Assurance Ltd, 2-1, Mission Row, Cal	Commercial Union Assurance Co, Ltd, 82, Dalhousie Square, Cal
Bharati Bima Ltd Lajpat Rai Rd, Benares City	Commonwealth Assurance Co, Ltd, Laxmi Rd, Poona 2
Bhaskar Insurance Co Ltd, Nowgong P O, Assam	Concord of India Insurance Co, Ltd, 8, Clive Row, Calcutta
Bihar National Insurance Co, Ltd, Exhibition Road, Patna, 8, Lyons Range, Cal	Co-operative Assurance Co, Ltd, Co-operative Assurance Bldg, Lahore
Bombay Baroda Assurance Co Ltd, Kernani Buildings, Sir Pheroz Shah Mehta Rd, Fort, Bombay	Crescent Insurance Company, Ltd, Lalgir Chambers, Tamarind Lane, Bombay
Bombay Co-operative Insurance Society Ltd, Co-operative Insurance Bldg, Sir Pheroz Shah Mehta Rd, Fort, Bombay	Crown Life Insurance Co, 12, Rampart Row, Fort, Bombay
Bombay Fire & General Insurance Co, Ltd Head Office United India Life Building, Sir Pheroz Shah Mehta Road, Fort, Bombay Branches—Akola, Indore-Dhulia, Delhi & Lahore	Deccan Assurance Co, Ltd, Deccan House, Bezwada
Bombay Life Assurance Co, Ltd, 45-47, Churchgate Street, Fort, Bombay, 10, Clive Row, Cal	Dominion Insurance Co, Ltd, 15, Clive Street, Cal
	Eagle Star & British Dominions Insurance Co, Ltd, 21, Strand Road, Calcutta
	Eastern Federal Union Insurance Co, Ltd, Rahimtoola House, Hornby Street, Fort, Bombay. H O - 9, Clive St, Calcutta

**MANUFACTURE OF SOAP ?** Read "MANUFACTURE OF SOAP." INDUSTRY BOOK DEPT., 22, R. G. Kar Road, Shambazar, Calcutta.

- Eastern National Insurance Co, Ltd, 12, Dalhousie Sq E, Cal.  
 Emphie of India Life Assurance Co, Ltd, Hornby Rd, Bombay, 28, Dalhousie Sq, Calcutta  
 Employer's Liability Assurance Corp'n, Ltd, 99, Clive St, Cal  
 Equity Insurance Co, Ltd, The Mall, Lucknow  
 Federal India Assurance Co Ltd, Connaught Place, New Delhi  
 Fine Art & General Insurance Co Ltd, 103, Clive St, Cal.  
 Forward Assurance Co, Ltd, 2nd Floor, Podar Chambers, 109, Parsi Bazar St, Fort, Bombay Br —102, Clive St, Cal & Bunder Rd, Karachi.  
 Free India General Insurance Co., Ltd, 15-141, Civil Lines, Cawnpore Br Lahore, Ajmer, Patna & Calcutta (16, Bentinck St)  
 Frontier Insurance Co Latif Bldg, Sadar Road, Peshawar Cantonment  
**General Accident Fire & Life Assurance Corporation Ltd., 7, Hare Street, Calcutta**  
 General Assurance Society Ltd, Kutchery Rd, Ajmer  
 General Family Pension Fund, Ltd 2, Fairlie Place, Cal  
 Genuine Insurance Co, Ltd, 2B, Ram Narayan Motilal Lane, Cal  
 Glory of the East Insurance Co, Ltd, 49-B, Harrison Road, Cal  
 Golden Eagle Insurance Co. Ltd, 40, Nisbet Rd, Lahore  
 Great American Insurance Co. Ltd, 8, Clive St, Calcutta  
 Great Asoka Assurance Co, Ltd, Fraser Rd, Patna  
 Great Eastern Life Assurance Co, Ltd, Tamarind Ln, Bombay, 28, Pollock Street, Cal  
 Great Peninsular Insurance Co, Ltd, 4, Westcott Road, P O Royapettah, Madras  
 Great Social Life & General Assurance, Ltd, 381, Hornby Rd, Bombay  
**Gresham Life Assurance Society Ltd., Gresham Assurance House, Sir Pheozshah Mehta Rd, Bombay**  
 Guardian Assurance Co, Ltd, 16, Hare St, Cal  
 Gujrat Life Assurance Co, Ltd., Raupura, Baioda  
 Guzrat Zoroastrian Mutual Death Benefit Fund Ltd., Lalaca Bldg, Nanpura, Surat  
 Hercules Insurance Co, Ltd, 16, Hare St, Calcutta  
 Hindu Family Annuity Fund, Ltd, 5, Dalhousie Sq, East, Cal  
 Hindu Mutual Life Assurance, Ltd, Hindu Mutual House, Chittaranjan Avenue South, Cal  
 Hindusthan Co-operative Insurance Society Ltd, 6-A, Suen Banerjee Rd, Cal  
 Howrah Insurance Co, Ltd, 30, Strand Rd, Cal  
 Hukumchand Life Assurance Co, Ltd, 30, Clive St, Cal  
 Hyderabad Pioneer Assurance Co, Ltd, 83-3, Public Garden Rd, Hyderabad, Deccan  
 Ideal Democratic Assurance & M L Ltd, Paranjpe Building, Tilak Talao, Nagpur City  
 India Equitable Insurance Company Ltd., 5, Southern Avenue, Calcutta  
 India Life Benefit Assurance, Ltd, Coimbatore  
 India Oriol Assurance Co, Ltd, Hall Gate, Amritsar  
 Indian Amicable Insurance Co, Ltd, 5 & 6, Hare St, Calcutta  
 Indian Economic Insurance Co, Ltd, P2, Mission Row Extension, Cal  
 Indian Life Assurance Co, Ltd, Victoria Road, Karachi  
 Indian Mercantile Insurance Co, Ltd, Indian Mercantile Chambers, 114, Nicol Rd, Ballard Estate, Bombay  
 Indian Mutual Life Association Ltd, 10, Clive Row, Calcutta  
 Indo-Union Assurance Co, Ltd, Indo-Union Buildings, 106, Armenian St, Madras  
 Jewel of India Insurance Co, Ltd, 5, Clive Ghat St, Cal  
 Jupiter General Insurance Co. Ltd, Ewart House, Tamarind Lane, Fort, Bombay

Krishna Life Assurance Co, Ltd,  
35, Panchkum Rd, New Delhi  
Lakshmi Insurance Co, Ltd,  
McLeod Rd, Lahore, (Life)

Liverpool & London & Globe  
Insurance Co. Ltd, 26, Dal-  
housie Sq, Cal

London & Lancashire Insurance  
Co, Ltd, 2, Fairlie Place, Cal

Long Life Insurance Co, Ltd,  
Lakshmi Rd, 180, Budhwaipeeth,  
Poona 2

Mahabir Insurance Co, Ltd, Ma-  
habir Buildings, 5, Royal Ex-  
change Place, Cal

Manufacturers Life Insurance  
Co, 123, Esplanade Rd, Fort,  
Bombay, 27, Dalhousie Sq,  
Calcutta

**Metropolitan Insurance Co.,  
Ltd.,** 11, Clive Row, Calcutta

Moonlight Insurance Society Ltd,  
31, Grosvenor House, Calcutta

Mother India Life Assurance Co  
Madras

Muslim India Insurance Co, Ltd,  
22, Mazang Road, Lahore

Mutual Help Association, Suphia  
Ville, Simla (Life)

Mutual Life Assurance Associa-  
tion, Palace Road, Baioda

Mysore Insurance Co, Ltd, Lal  
Bagh, Bangalore City

Nagpur Pioneer Insurance Co,  
Ltd, Pioneer Bldg, Nagpur

Napier Insurance Co, Ltd, 3,  
Commercial Buildings, Clive  
Street, Calcutta

National City Insurance Co, Ltd,  
135, Canning St, Calcutta

National Employer's Mutual  
General Insurance Assn Ltd,  
101-C, Ballygunge Place, Cal

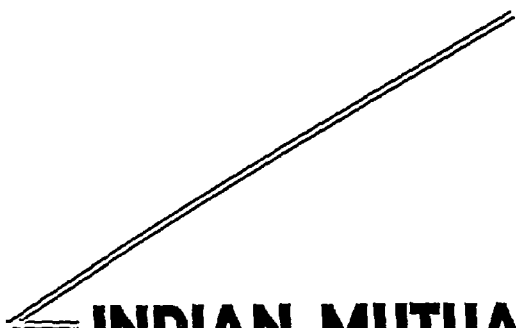
National Fire & General Insur-  
ance Co, Ltd, 7, Council House  
St, Calcutta

National Indian Life Insurance  
Co, Ltd, 12, Mission Row,  
Calcutta

National Insurance Co, Ltd, 7,  
Council House St, Calcutta  
Br —Bombay, Madras, Rawal-  
pindi, Lahore, Delhi, Lucknow,  
Rangoon, Patna, Dacca, B E A,  
Kuala Lumpur, (FMS)

National Mercantile Insurance  
Co (India), Ltd, 30, Russa Rd,  
Calcutta

**WE COVER WAR RISK  
AT ORDINARY RATES**



**INDIAN MUTUAL LIFE**

**Association Ltd.**

**10, CLIVE ROW,  
CALCUTTA.**



National Mutual Assurance of India, Ltd., 6, Phillips Street, Madras	New Zealand Insurance Co, Ltd., 26, Dalhousie Sq, Calcutta
National Mutual Life Association of Australasia Ltd, Chartered Bank Buildings, Calcutta	North British and Mercantile Insurance Co, Ltd, 101-1, Clive St, Calcutta
National Star Assurance Co, Ltd, 27, Linghi Chetti St., Madras	Northern Assurance Co, Ltd., 7, Haie St, Calcutta
Navabharat Insurance Co, Ltd, 261-263, Hornby Road, Fort, Bombay.	Northern India Insurance Co, Ltd, 8, Abbot Rd, Lahore
New Asiatic Life Insurance Co, Ltd, New Asiatic Building, Connaught Circus, New Delhi	Norwich Union Fire Insurance Society Ltd, 2, Hare St, Cal
New Guardian of India Life Insurance Co, Ltd, United India Life Building, Esplanade, Madras.	Norwich Union Mutual Life Insurance Society, Ltd, 6, Lyons Range, Calcutta
New India Assurance Co, Ltd, H O Esplanade Rd, Bombay B1 —9, Clive Street, Calcutta	Ocean Accident & Guarantee Corporation .Ltd, Churchgate St, Bombay
New Insurance Ltd, P O Box 6, Benares.	Oriental Government Security Life Assurance Co, Ltd, Oriental Buildings, Bombay, 2, Clive Row, Calcutta
New Merchant Insurance Co, Porbandar, Kathiawar.	Palladium Assurance Co, Ltd, 8, Dalhousie Square, Cal
New State of India Insurance Co, Ltd, Lahore	Pearl Assurance Co, Ltd, 10, Clive St, Calcutta
	People's Insurance Co, Ltd, 20, Ashutosh Mukherjee Rd, Cal
	Policyholders Assurance, Ltd, P6, Mission Row Extension, Cal

## IMPRESSIVE FIGURES FOR 1941

### Total Business in Force

Exceeds -- Rs. 13,51,00,000

### Total Claims Paid

Exceed Rs. 2,97,00,000

Total Assets Exceed Rs. 4,04,00,000

# National Insurance, Co., Ltd.

7, COUNCIL HOUSE STREET - - CALCUTTA.

Phone · Cal. 5726, 5727 & 5728

Branch & Agency Offices throughout India, Burma, Ceylon,  
British East Africa, & The Federated Malaya States.

Popular Insurance Co, Ltd, Mangalore, S I	Sterling Insurance Co, Ltd, Delhi
Prabartak Insurance Co, Ltd, 11B, Di Rajendra Rd, Cal	Sun Life Assurance Co, of Canada Ltd, Canada Bldg, Bombay
Premier General Assurance Co, Ltd, Exhibition Rd, Patna	Sunlight of India Insurance Co, Ltd, 3, Temple Rd., Lahore
Presidency Life Assurance Co, Mherwan Building, Sir P Mehta Rd, Fort, Bombay	Sunshine Insurance Ltd, 52, The Mall, Lahore
Presidency Provident & General Insurance Co, Ltd, Mherwan Bldg, Sir P Mehta Rd, Fort, Bombay	Swadeshi Bima Co, Ltd, Civil Lanes, Agia
Provincial Union Assurance Ltd, 9, Dalhousie Sq, (East), Cal	Taisho Marine and Fire Insur- ance Co, 100, Clive Street, Cal- cutta
Prudential Assurance Co, Ltd, Clive Bldgs, Cal	Taiun Assurance Co, Ltd, Gan- dhi Rd, Ahmedabad
Reliance Assurance Co, Ltd, Kempegowda Road, Bangalore	Triton Insurance Co, Ltd, 4, Clive Row, Cal
Royal Exchange Assurance, Ltd, 1-2, Old Court House Corner, Calcutta	Tropical Insurance Co, Ltd, Tropical Bldgs, Connaught Cir- cus, New Delhi
Royal Insurance Co, Ltd, 26-27, Dalhousie Sq, Calcutta	Trust of India Insurance Co, Ltd, New Kitab Building, Lav- ni Rd, Poona City
Ruby General Insurance Co Ltd, H O 8 Royal Exchange Place, Calcutta	Union Life Assurance Co, Ltd, 54, Bentinck Street, Calcutta
Saraswati Insurance Co, Ltd, 3, Montgomery Rd Lahore	Union Marine & General Insur- ance Co, 8, Clive Street, Cal
Scotish Union and National In- surance Co, 6, Lyons Range, Cal 16, Bank St, Bombay	United India Life Assurance Co, Ltd, (1906), Hd Office, United India Life Bldgs, Madras
Sebak Insurance Co, Ltd, 24, Strand Rd, Cal	United Karnatak Insurance Co, Ltd, Chaturdas Gardens, Dhai- war
Sentinel Assurance Co, Ltd, 317-321 Hornby Road, Fort, Bombay	United National Insurance Co, Ltd, Wood St, Karachi
Servants of India Insurance Co, Ltd, Connaught Place, Delhi	Unity Insurance Co, Ltd, Nisbet Road, Lahore
Shree Life Assurance Co, Ltd, Fort Chambers, 6-10, Dean Lane Bombay	Universal Fire & General Insur- ance Co Ltd, Sir Pheroze Shah Mehta Road, Fort, Bom- bay
South India Co-operative Insur- ance Society Ltd, 7, Armenian St Madras	Venus Assurance Co, Ltd H O Delhi Calcutta Office 14, Ben- tinck Street, Calcutta
South India Wesleyan Methodist Society Ltd, Post Box 501, Park Town Madras (Life)	Victory Insurance Co, Ltd, 3, McLeod Rd, Lahore
South Indian General Insurance Co Ltd, Esplanade, Madras	Vinayalakshmi General Assurance Co, Ltd, Armenian St, G T, Madras
Standard Life Assurance Co Standard Bldgs, 32, Dalhousie Sq Calcutta	Vulcan Insurance Co Ltd, 73, Opp Churchgate Station, Bom- bay
Star of India Insurance Co, Ltd, Star Bldgs, 3 Cooper Road, Lahore	

**THE RETAIL TRADE**—an exposition of Methods that build up Retail Trade. Price Re 1/4 Industry Book Dept., Shambazar, Calcutta.

**Warden Insurance Co., Ltd.**,  
Fort, Bombay. Branches—  
Poona, Nagpur, Lahore, Indore,  
Amraoti & Ahmedabad

Western Assurance Co., Chartered  
Bank Bldgs, Calcutta

**Western India Life Insurance Co., Ltd.**,  
Satala  
City Branches—Bombay, Poona,  
Nagpur, Ahmedabad, Karachi,  
Lahore, Delhi

Winterthur Swiss Life Assurance  
Co., Ltd, Volkart Building,  
Ballard Estate, Bombay

Yorkshire Insurance Co., Ltd.,  
10, Bruce St, Fort, Bombay

Young India Assurance Co., Ltd.,  
26, Strand Rd, Cal

Zenith Life Assurance Co., Ltd.,  
Esplanade Rd, Bombay

### INSURANCE COMPANIES (PROVIDENT).

Aryan Assurance Ltd, 3, Southern  
Avenue, Calcutta

**Asiatic Provident Co., Ltd.**,  
3, Commercial Buildings, Cal-  
Associated India (Provident)  
Insurance Co., Ltd, 9, Dal-  
house Sq East, Cal

Backerganj Insurance Bank Ltd,  
Backerganj Building, Kowli-  
Khana, Barisal.

Basanti Provident Insurance Co.,  
Ltd, 31, Ashutosh Mukherjee  
Rd, Calcutta Br—Puri, Cut-  
tack, Angul, Berhampur, Bilas-  
pur, Nagpur, Ranchi, Balasore,  
Dacca, Tezpur, Cheral, Jorhat,  
etc

Beacon Provident Insurance Co.,  
Ltd, 7, Thakurani Rd, Cal

Bharat Gaurab Provident Insur-  
ance Co., Ltd, 142-1-2, Nai-  
singh Dutt Rd, Howrah

Bharat Palli-Bandhab Insurance  
Co., Ltd, Bhojswai, Faridpur

Biswa Bharati Provident Insur-  
ance Ltd, 6 & 7, Clive Street,  
Calcutta

Bombay Zoroastrian Mutual  
Death Benefit Fund, Princess  
St, Dhobi Talao, Bombay

Central Asia Provident Insurance  
Co., Ltd, 12, Dharamtola St,  
Calcutta

Chotanagpur Provident Ins Co.,  
Ltd, Main Rd, Ranchi

City Insurance Co., Ltd, 16,  
Mangoe Lane, Dalhouse Sq,  
Calcutta

City Insurance Co., Ltd, (Provi-  
dent), 16, Mangoe Lane, Cal

City of Calcutta Provident & An-  
nuity Society Ltd, 4, Kaloo  
Ghosh Lane, Calcutta

Deshkalyan Insurance Co., Ltd.,  
15, Clive Row, Calcutta

**Diamond Jubilee Provident In-  
surance Ltd.**, 275-4, Bowbazar  
St, Calcutta

Glory of the East Provident In-  
surance Co., Ltd, 49B, Har-  
rison Rd, Calcutta

Ideal Provident Insurance Co.,  
Ltd, 54, College St, Calcutta

Incorporated Provident Insurance  
Ltd, 30, Strand Rd, Calcutta

India Insurance Ltd, Comilla  
India Mutual Provident Society

Ltd, 15, Chittaranjan Ave, Cal  
India Provident Co., Ltd, 10,  
Clive Row, Cal

INSURE WITH

## **BASANTI PROVIDENT**

### **INSURANCE CO. LIMITED,**

ESTD—1930.

Head Office: 31, Ashutosh Mukherjee Road, Calcutta.

#### BRANCHES

Bengal, Dacca,	Assam, Tezpur,	Orissa, Cuttack,	Bihar, Ranchi,	C. P. Nagpur.
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Telegram Rainbow

Telephone PK 1472

Indian Christian Provident Fund,  
Vepery, Madras  
Indian Provident Funds Society,  
South Napier Rd, Karachi  
International Provident Assur-  
ance Ltd, Trunk Road, (To-  
kobar), Gauhati  
Kamala Insurance Co, Ltd, Kar-  
thikapally, Haripad, Travancore  
Labourei's Mutual Provident Co,  
Ltd, Nisbet Road, Lahore  
Mysore Provident Insurance Co,  
Ltd, Lalbagh-Port Rd, Viswes-  
warapuram, Bangalore City  
Napier Insurance Co, Ltd, 3,  
'Commercial Bldgs, Chive St,  
Calcutta  
National Economic Provident  
Ins Ltd, 14, Hare Street, Cal  
New Bengal Provident Ins Co,  
Ltd, P2, Mission Row Exten-  
sion, Calcutta

Oriental Provident Insurance Ltd,  
Rangpur

Provident Union Insurance Co,  
Ltd, 5 & 6, Hare St, Cal

Raj Lakshmi Hindu Provident  
Funds Society, McLeod Road,  
Karachi

**Rural Provident & Insur-  
ance Co., Ltd.,** 22, Strand  
Road, Calcutta

Sanguine Provident Insurance  
Co, Ltd, 98 4, Chive St, Cal

Sind Hindu Provident Fund So-  
ciety (1894), Hyderabad, Sind

Standard Provident Insurance &  
Annuity Co, Ltd, 4 A, Scott  
Lane, Calcutta

Welfare Assurance Co, Ltd, Bha-  
galpur City

## IRON & METAL FOUNDRIES.

(Also See Engineering Works).

### BENGAL

Atta's Iron Foundry, 171, Grand  
Trunk Rd, Salkia, Howrah  
**Bantra Engineering Works**, 233,  
Behilos Road, Howrah Props  
D K Das & Co, Ltd  
Bengal Iron Works, 16-3, Chatter-  
paya Lane Howrah  
Britannia Engineering Co, Ltd,  
Titaghur, 24-Pargis  
Britania Engineering Works &  
Foundry, 34, 35, Haroganj Rd,  
Howrah  
Dragon Iron Works, Bandaghat,  
Salkia, Howrah  
Howrah Iron & Scrap Co, 73, G  
T Road, Howrah  
Howrah Iron & Steel Works, 22,  
Ramlal Mukherjee Lane, Salkia,  
Howrah  
Narayanganj Iron Works, Nara-  
yanganj  
Ramkrishna Iron Foundry, 5,  
Dalgobinda Singh Lane, How-  
rah  
Ramkrishna Iron Works Ltd,  
56 Chasadhobapaya Lane, How-  
rah  
Renwick & Co Ltd, Kushtia,  
Nadia (Also Brass)

S C Dass & Co, H O 178, Behi-  
lios Rd, Howrah

S P Guchait & Sons, 2, Madusu-  
dhan Palchoudhury Lane, How-  
rah

Sree Gopal Iron Works, 7 & 8,  
Goho Rd, Howrah

Star Iron Works, Lillocah, How-  
rah

### BIHAR.

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Marufganj, Patna City

Tatanagai Foundry Co, Ltd, Tata-  
nagar

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Bombay

Art Metal Works, No 100, Feras  
Rd, Byculla, Bombay

Bombay Iron Works, Ripon Rd,  
Cross Lane, Byculla, Bombay

Chimanlal Devchand & Co, 2nd  
Lane, Kumbharwada, Bombay

Connaught Iron Works, Clerk Rd,  
Palls St, Jacob Circle, Bombay

Corporation Iron Works, 3, Gilder  
Lane, Tardeo, Bombay

Modern foundry shop practice is described in **PRACTICAL METAL  
CASTING.** Rs 2/8 Industry Book Dept., Shambazar, Calcutta.

Dajibhoy Kika & Sons, Opp W. I T C Office, Near Central Station, Bombay  
 Dinshaw Iron Works, Giant Rd, Corner, Bombay  
 Empluss Iron & Brass Works, 47, Abdul Rehman St, Bombay  
 Malleable Iron & Steel Castings Co., Ltd, DeLisle Rd, Lower Parel, Bombay  
 Mukand Iron & Steel Works Ltd, Signal Hill Avenue, Mazagaon, Bombay.  
 P V Kotwalla, 6th Lane, Kumbharwada, Bombay  
 Safty Iron Works, Ripon Road, Corner of Sankh St, Byculla, Bombay.

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 Swastik Iron Works, Ltd, Agra Rd, Near Jackson Garden, Nasik.  
 Victoria Iron Works Co, Ltd, Doodesar Rd, Ahmedabad

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 Bengal Light Casting Co. 21, Maharshi Debendra Rd, Cal  
 Berapukur Iron Works, 18, Ramnath Pal Rd, Kidderpore, Cal  
 Dutta & Co, 11, Wellington St, Calcutta.  
 Eastern Light Castings Co, Ltd, 12, Mission Row, Cal  
 G C Ghose, 9, New Bowbazar Lane, Cal (Iron Gate, Railing etc)  
 Gobindo Sheet Metal Works & Foundry, 210, Harrison Rd, Calcutta  
 Indian Tube Co, Ltd, Victoria House, Chowringhee, Cal  
 Jogendra Nath Chatterjee & Sons, 21, Maharshi Debendra Rd, Calcutta  
 Kanai Lal Singha, Nanda Lal Adhikary, 58, Clive St, Cal  
 Kushumika Iron Works, Ltd, 3, Darmahatta, Cal  
 Maya Engineering Works, 36-A, Russa Rd, Kalghat P O, Cal

Metal Manufacturing Co Ltd, 32, Armenian St, Cal  
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 Grand Iron Works, Chowri Bazar, Delhi  
 Ram Iron and Brass Works, Ajmere Gate, Delhi  
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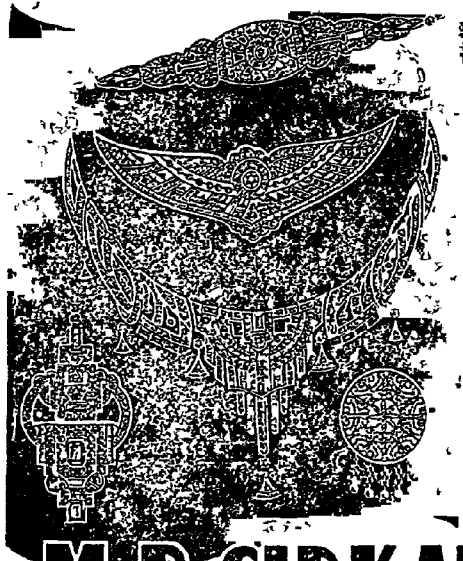
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 Wellington Jute Mill, Rishra.

### BIHAR.

Katihar Jute Mills Ltd, P O, Daharia Mills, Rly. Stn Katihar, E B Ry. Dt Purnea  
 Rameshwar Jute Mill, Samastipur, Daibhanga

### MADRAS PRESIDENCY.

Chitavalsah Jute Mills Co Ltd, Chittavalsah, Vizagapatam Dist  
 Guntur Jute, Cotton and Paper Mills, Guntur  
 Krishna Jute and Cotton Mills Co Ltd, P O Ellore, Godavary  
 Nellimarla Jute Mills, Nellimarla, Vizag Dt.  
 Shree Bajrang Jute Mills Ltd, P. O Guntur, M S M Rly

### UNITED PROVINCES.

Beharilal Kanjilal Jute Mills & Ginning Factory, Cawnpore.  
 Juggulal Kamapat Jute Mills, Co Ltd, Cawnpore  
 Maheshwari Devi Jute Mills, Haranganj Rah Bazar, Cawnpore

### JUTE PRESSES.

Ashcroft Jute Press, 7, Nawab Dilargung, Rd, Chitpur Cal  
 Atlas & Union Jute Press Co, Ltd, 3, Kali Prosanna Singhee St, Cossipore, Cal.  
 Bandhaghat Jute Press, 4, to 6, Old Ghosey, Salkia Rd, Howrah.  
 Bengal Baling Co's Jute Press, Sitallakhya, Naranganj, Dacca  
 Bengal Hydraulic Jute Press, Gun Foundry Rd, Cossipore, Calcutta  
 Bimlipatam & Calnagapatam Jute Baling Co, Bimlipatam, Vizagapatam.  
 Calcutta Hydraulic Jute Press, 15, Kali Prosanna Singhee Lane Cossipore, Cal  
 Central Hydraulic Jute Press, 243, Upper Chitpore Rd, Cal  
 Chittagong Co's Jute Press, Chaumuhani, Noakhali

Cocanada Jute Press, Ltd, Cocanada  
 Empress of India Jute Press, 54, Ghosey Rd, Cal.  
 Ganges Jute Press, 1, Nawabpatty Rd, Cal  
 Ghosey Jute Press, 6, Joyabati Lane, Ghosey, Howrah  
 Gouti Jute Press, 5 and 5-1, Gun Foundry Rd, Cossipore, Cal  
 H K Bank & Co's Jute Press, Kissengunj, Purnea  
 Hanuman Jute Press, 38, Ghosey Rd, Howrah  
 Hooghly Hydraulic Jute Press, 2, Chitpore Ghat Lane, Cal  
 Imperial Jute Press, 23, Canning St, Cal  
 Jardine Skinner & Co's Jute Press, Chandpur, Tipperah, Ek-rampur, Naranganj, Dacca  
 Kainaphuli Jute Mills, Press, Damakhali, Moheshkhali, Chittagong

"Dental Preparations"—An invaluable guide to manufacturers of tooth powders, pastes, mouth-washes, etc. Re. 1/12. Industry Book Dept, Cal.

Krishna Mills, Shuipur, U. P  
Lakshmi Jute Press, 22, Jheel  
Rd, Cossipur, Cal

Landale & Clarke's Jute Press,  
Chaumuhani, Noakhali Br —  
Motihari, Chandpur, Tipperah

M David & Co's Jute Press,  
Charmugaria, Faridpur

M Sarkies & Sons' Jute Press,  
Hajiganj, Naraingunj

Madanganj Pressing Co, Ltd,  
Narainganj, Dacca

Nasmyth Jute Press, 124, Old  
Ghoosey Rd, Howrah

New India Jute Press, 4, Gun  
Foundry Rd, Cossipur, Cal

Ralli Bros, Jute Press, Chandpur,  
Tippera, Sheoraphuli, Hooghly,  
Tanbazai, Narayanganj, Dacca,  
6, Ram Gopal Ghose Rd, Cossi-  
pore, Calcutta

Reliance Jute Press, 117, Cossi-  
pore Rd, Cal

Salkea Jute Press, 52, Old Ghoos-  
ery Rd, Salkea, Howrah

Shiva Jute Press, 4-5, Kali Pro-  
sanna Singhee Lane, Cossipur,  
Calcutta

Sonakund Bailing Co, Ltd, Nari-  
anganj, Dacca

Sulekha Jute Press, 57, Old Goo-  
sery Rd, Howrah

Sun Jute Press, 3, Cossipur Rd,  
Calcutta

Suraj Jute Press, 1, Gun Foundry  
Road, Cossipore Calcutta, 8,  
Royal Exchange Place, Cal

Union Jute Co's Jute Press,  
Chandpur, Tippera

Union Jute Press, 7, Nawab De-  
laijung Rd, Cal

Victoria Hydraulic Press, 11,  
Cossipur Rd, Cal

Vishnu Jute Press, 2, Turna-  
Rd, Cossipore, Cal

Vizianagram Press & Mill Co,  
Ltd, Vizagapatam.

### KEROSENE OIL MERCHANTS.

Adamji Lookmanji & Co, 35, Bapu  
Khote St, Null Bazar, Bombay

Burmah Shell Oil Storage & Dis-  
tributing Co of India, Ltd,  
Hongkong House, Dalhousie S,  
Calcutta B —Bombay, Kara-  
chi, Madras & New Delhi

Dwarikadas Vanmali, Outside  
Golwadi Gate, Viramgam,  
Ahmedabad

Haribhai Piagji Kerosene Co,  
Embankment Rd, Karachi

Haribux Gopiram, 26, Burtalla  
Street, Calcutta

Kasamaji Nanji, Porbandur

L Ebrahim & Co, 343, Raviwar,  
Peth, Poona City

Manji Nathooabhai & Co, Bandar,  
Porbandar, Kathiawar

N N Paliakki, Raichur, Deccan  
Standard Vacuum Oil Co, 6,  
Church Lane, Calcutta

Victor Oil Co Ltd, 11, Clive St,  
Calcutta

### KNITTING MACHINE DEALERS.

#### BIHAR.

Behai Knitting Factory, Mogal-  
pura St, Patna City

#### BOMBAY.

Katrik Hosiery Works, 167, La-  
mington Rd, Bombay

Oomeisee Kesowjee & Co, P B  
No 1 Bombay H O —Canna-  
nore B —Cal Calcut Madras,  
Karachi, Colombo & Rangoon

#### CALCUTTA.

Don Watson & Co Ltd, 19, Bri-  
tish Indian St, Cal

Indo Japanese Trading Co, 14-2  
Old China Bazar St Cal

Machineries & Electricals Ltd 87,  
Clive St, Cal

Oriental Machinery Supplying  
Agency Ltd, P 12, Mission Row  
Extension, Cal

#### LAHORE.

Ali Mohamed & Sons, Machi  
Gate, Lahore

Eastern Knitting Machine Supply  
Co, Brandreth Rd, Lahore

#### PUNJAB.

Indian Hosiery Machine Makers  
Hospital Rd, Ludhiana

Kalsi Mechanical Works, Nand-  
pur, P O Sanahwal, Ludhiana

"Dental Preparations"—An invaluable guide to manufacturers of tooth  
powders, pastes, mouth-washes, etc. Re 1/12. Industry Book Dept., Cal.

Mistri Farzand Ali, Lal Bazar,  
Jullundur City  
Nehal Chand & Co, P. B No. 16,  
Ludhiana  
Premier Hosiery Yarn & Machi-

nery Mart, Ludhiana.

### UNITED PROVINCE.

Kumaun Knitting Factory. Al-  
morah, U P.

### KNITTING YARN DEALERS.

E B. Bros & Co, 3, David Joseph  
Lane, (Off Canning St), Cal  
G Mostafa, D-8, Municipal Mar-  
ket, Calcutta  
H S Khosla & Co, Chamberlain  
Rd, Lahore

Karim Bux & Elahi Bux Bros.  
58-3, Canning St, Cal  
Kashmir Cottagers Mart, 5th  
Bridge, Sinagar, Kashmir  
L Mullick, Wool House, 183,  
Dharamtala St. Cal

### LABEL DEALERS.

Kedai Nath De, 9, Chandia Nath  
Chatterjee Rd, Calcutta

Pandharnath S. Bhatkei, 244,  
Bellasis Rd, Bombay

### LAC DEALERS.

Bansidhar Dutt, 126, Khongra-  
putty St, Cal (Also Shellac-  
Wax, Glues, Sand Papers, etc.).

Bhagat Ram & Sons, Pahari Gate,  
Hoshiarpur

F & O Lang, 25-26, Stephen  
House, Dalhousie Sq, Cal

Gobinda Ram Ram Lall, Rangiya,  
Kamrup

Khuda Bux Khan, near Post  
Office, Bhatatpuri (Bangles)  
Mahesh Bhagat, Bhatnagar, Jog-  
bani, Poona

Mannalal Balab Dass, Raghunath-  
ganj, Katni

Mukanda Mal Jagan Nath, Hoshi-  
arpur, Punjab

Ram Chandra Dungaimall, Ran-  
gya, Kamrup

### LACE & EMBROIDERY DEALERS & MANUFACTURERS

#### AJMER-MERWARA.

Hajimal Jodhraj, Inside Madar  
Gate, Ajmer

#### BENGAL.

Dacca Lace Manufacturing Co,  
208, Nawabpur Rd, Dacca

Farashganj Braid Factory, 43,  
Malakaitola, Dacca

Paul Bros, Barabazar, Chander-  
nagore

#### BIHAR.

Haji Md Oomer, Maidan Shah  
Fasahat, Patna City

Jager Nath Dass, Chowk Shikar-  
pur, Patna City

#### BOMBAY.

Bhulabhai Nathabhai, 68 Swa-  
deshi Market, Kalbadevi Rd,  
Bombay 2

Dayabhai Jagdevandas Jariwala  
381, Bhendv Bazar, Near Py-  
dhownie Police Station, Bom-  
bay.

R K Moti Shaw & Co, Hummum  
St, Bombay

#### BOMBAY PRESIDENCY.

Antarkar & Sons, Poona  
Hargovandas Dulabhdas Jari-  
wala, 87, 3rd Bhoiwada, Bhu-  
leshwar, Bombay

Harilal & Co, Jariwala, 70-72,  
Chhipi Chawl, Opp Mulji Jetha  
Market, Bombay

Hiralal Balabhai, Limbooseiy,  
Surat

Keshav Lal Chhaganlal, Off Bhav-  
nagore, Limbu Sheri, Surat  
Thakordas Shrivai, Near Police  
House, Galemandir, Surat

#### CALCUTTA.

H Ahmad Hasan Aliwala, 53-54,  
Khengrapatty, Cal

Indo-British Trading Co, P.O. Box  
No 2168, Calcutta

Rezwan Ali Mullick, D-6, & 7,  
Municipal Market, Cal

#### DELHI.

Babumal Hem Chander, Kinari  
Bazar, Delhi

"Pharmaceutical Preparations" A guide to preparing patent medicines.  
A formula may earn for you a lot. Re. 1/12. Industry Book Dept., Cal.

Bishambar Nath Hari Chand,  
Kinari Bazar, Delhi  
G Kanhiya Lal & Co, Delhi  
Indian Lace & Embroidery  
Works, Kucha Seth, Dariba  
Kalan, Delhi  
Kamelune Lace Mills Ltd, Subzi-  
mandi, Roshanara Rd, Delhi  
Mithan Lal Om Prakash, Matia  
Mahal, Delhi  
Pearay Lal Amirchand Jain, Fa-  
tehpuri, Delhi

**INDIAN STATES.**

Bhagwandas Gobindram, 1st  
Bridge, Srinagar, Kashmir  
C K Huchappa & Bros, Banga-  
lore  
Chainsukh Gulabchand, Purohitji  
Ka Khada, Jaipur City  
Hiralal Kanaiyalal Sarafa, Lash-  
kar, Gwalior  
Kashmir Government Arts &  
Crafts, Kashmir  
P Anathas & Brothers, Eravipu-  
ram, Mayyanad PO, Travan-  
core  
Singh Singh & Co, Srinagar

**MADRAS CITY**

A C Angamuthee Naicker & Co,  
60, Swamy Naicken St, Madras

**MADRAS PRESIDENCY**

A N Krishnanyer 53, Muniari  
Varathier St Salem  
Durga & Co Lajapathinoy Peta,  
Palakol West Godavary  
Laxmi Vilas Trading Co, Tinne-  
velly  
M Daniel Raju Christianpeta,  
PO Palakol West Godavary Dt

**LAMPWARE & ACCESSORIES DEALERS.****ASSAM**

Daluram Bajnath & Co, Dibru-  
garh

**BOMBAY**

Abbas & Co, 313, Abdul Rehman  
St, Bombay  
C S Pochee & Son, 586, Chira  
Bazar Gurgaum Rd, Bombay  
Champaklal Bhogilal Shah Jam-  
nabai Mansion, Pydhonie,  
Bombay  
Dinshaw Master & Co Ltd, 247,  
Nagdevi Street, Bombay 3  
H T Shah & Co, Ahmad Bldgs,  
Golpitha, Bombay 4

Nagarkai & Sons, Upper Bazar,  
Mangalore, S Kanara  
P Saeshafah, Garuvu, PO Pala-  
kol, Dt W Godavari  
Sri Vilas Lace Works, Narsapur,  
West Godavari Dt, South India  
V P Harry & Company, Narsa-  
pur, West Godavari Dt  
V S Williams, Jagannaickpur,  
Cocanada  
Y S David & Co, 1-56, Church  
Rd, Palakol, W Godavary

**PUNJAB**

Modern Embroidery Works,  
Trunk Bazar, Sialkot City  
New India Embroidery Mills,  
Chheharta, Amritsar  
Weaving Co, Palanpur, Gujarat

**UNITED PROVINCES.**

Bhagwan Das Babu Lal Johri  
Bazar, Daulat Cloth Market,  
Agra  
Dharam Chand Jamboo Pershad  
Jain, 10, Aminabad Pak,  
Lucknow  
Girdharidas, Jagmohandas, 1-21,  
Gyanbapi, Benares City  
Kanhiya Lal Rameshwai Piasag,  
Chowk, Cawnpore  
Lal Behari Tandon, Chowk, Luck-  
now  
Lucknow Fine Arts, Chowk  
Lucknow  
Mohan Lal, Gotewale, Johri  
Bazar, Agra  
S Ami & Co, Rakabgunj, Luck-  
now  
Swadeshi Lace Factory, 39, Model  
House, Lucknow

Mahomed Ebrahim & Co, 186,  
Chakla Street, Bombay  
Roy Bros, 12, Jambulvadi, Off  
Kalbadevi, Bombay  
S N Gandhi, Dharamgadhiawala,  
Pydhonie, Bombay 3 (Incandes-  
cent lamp)  
Star Incandescent Light Co 68  
Lohar Chawl P B 2089,  
Bombay

**CALCUTTA**

Abhoy Charan Kundu, 207, China-  
bazar St, Calcutta  
Ali Mohamed & Co 24-27, Old  
China Bazar St, Calcutta

"Pharmaceutical Preparations" A guide to preparing patent medicines.  
A formula may earn for you a lot. Re. 1/12. Industry Book Dept, Cal.



Bepin Behary Paul, 9, Old China Bazar St, Calcutta  
 Dewan Chand & Son, 218, Harrison Rd, Cal  
 General Incandescent Light Co, 144, Old China Bazar St, Cal  
 K C Dey & Sons, 80, Lower Chitpur Rd, Cal  
 Madan Mohan Dhur, 48, Old China Bazar St, Cal  
 Radhakanta Dass & Sons Ltd, 211, Old China Bazar St, Cal  
 Radio Lamp Works Ltd, Bharat Bhawan, Central Avenue, Cal  
 Factory—Cluntry Club Road, Karachi B.—Lahore: Bombay; New Delhi  
 Satcowile Dass, 23, Old China Bazar St, Calcutta  
 Shulpa-Peeth Ltd, Alambazar, Cal.

**INDIAN STATES**

Kathiawar Industries, Wadhwan City, Kathiawar, (Hurricane)

Mysore Lamp Works Ltd, P O Malleswaram, Bangalore.

**LAHORE.**

China House, Dabbi Bazar, Lahore (Also clockery).  
 H Malik & Sons, Lahore

**MADRAS**

Bengal Lamps, 288, Esplanade Row, Madras

K S Shivan & Co, Shivji Bldgs, 178-179, Broadway, Madras

**MADRAS PRESIDENCY**

Sun Company, Ayenkadai Street, Tanjore

T V Ramanappa Setty, Munio St, Anantapur

**UNITED PROVINCES**

United Provinces Glass Works Ltd, Bahjoi, Moradabad Dt

Upper India Manufacturing Co, 15-30-36, Civil Lines, Cawnpore

**LARD & TALLOW MERCHANTS.**

Calcutta Tallow Supplying Co, 19, Tinetta Bazar St, Calcutta  
 F P Oliver & Co, P O Box No 50, G P O, Bombay  
 Khadga Bahadur Chetry, U Mou Piem, Shillong

Khaitan Sons & Co, 1, Commercial Buildings, Clive St, Cal  
 M N Daruwalla & Co, 20, Apollo St, Fort, Bombay  
 M S Mullick & Bros, & The Indian Tallow Supply Co, 21, Tinetta Bazar Street, Calcutta.

**LEAD SHEET MERCHANTS.**

Chandulal Jethabhai & Co., Mirchigali, Nagdevi, Bombay

Indian Rolling Mills Ltd, 6A, Nirode Behari Mullick Rd, Cal

**LATHE DEALERS.**

Precision Machine Tool Agencies, Warden House, S N P Mehta Road, Fort, Bombay Br. Ahmedabad

**T. E. Thomson & Co., Ltd.**, 9, Esplanade East, Calcutta Factory D1 Satya Road, Kidderpore

**LEATHER DEALERS.****BIHAR**

Hatoon & Co, Mimandi, Allah

**BOMBAY**

Allibhai Mahomed, 64, Daboo St, Mull Bazar, Bombay.

Ebrahim Yousuf Haji Mahomed Co, 240, Khadak, Nishanpada Road, Bombay

Janmahomed Alibhoy, 147, Dhaboo St, Bombay

N V Chavda & Co, Dwarkadas Mansion, Sandhuist Rd, Bombay.

**BOMBAY PRESIDENCY**

Dayabhai Velji Leather Factory, Ahmednagar

Nagindas Motiham, Mochivad, Kana

**CALCUTTA**

Alis Leather Co, 15, Sen Yat Sen St, Bowbazar P O, Calcutta

Bengal Home Industries Association, Willingdon House, 42, Chowringhee Road, Calcutta

Bengal Tannery Co, 31-14, Lower Chitpur Road, Calcutta

For full process of manufacture of phenyle read **DISINFECTANTS & ANTISEPTICS**. Re. 1/12. Industry Book Dept, Calcutta.

Dost Mohamad & Sons, 7,  
Bentinck St, Calcutta  
Kazi Khelafat Hossain & Co, 12,  
Lower Chitpore Road, Calcutta  
M M Shriazi & Sons, Hide Rd,  
Calcutta

### CENTRAL PROVINCES

Khalphanabhai Lalji, Mahadeo-  
pura, Wardha

### DELHI

H Peer Mohd Shamsuddin, Delhi  
S Abdul Gani & Sons, Kash-  
mere gate, Delhi  
Varma Leather Factory, Burn  
Bastion Road, Delhi

### INDIAN STATES

Abdul Gafoor Mohd Ismail, Mas-  
judpura, Kotah  
Abdul Rahiman Saheb, Hassan,  
Mysore  
Ahmed Bux Raniwala, Sripura,  
Kotah  
Cawnpore Boot Stores, Johi  
Bazar, Jaipur City  
Leather & Footwear Emporium,  
Ranjit Road, Mody Bldgs,  
Jamnagar  
M A Shukoor Saheb & Co,  
Kadur, Mysore

### KARACHI

Bundally Kassim, Rampart Row,  
Karachi

### MADRAS CITY

Chambers & Co, Balng Piess,  
Enabalu Chetty St, Madras  
Hussain & Co, 6, Stingers' St,  
Madras  
M M Mohaideen Thumbay & Co,  
228, Angappa Naick St, Mad-  
ras  
South Indian Export Co, Ltd, 4,  
McLean St, Madras

## LEATHER GOODS DEALERS & MANUFACTURERS.

### BIHAR

Charan Das Mistry, Saikhi Lall  
Katra, Mithapur, Patna  
Dead Cattle Leather Works, Naya-  
tola Bankipur P O Patna  
Jaiswal Brothers, Sujagunj Ba-  
zari, Bhagalpore City.

### BENGAL

Bata Shoe Co. Ltd. Batanagar,  
24-Parganas

### MADRAS PRESIDENCY

Eastern Commercial Co, Porto  
Novo, S Arcot  
G Loodu & Sons, West Gate,  
Madura  
M A Nazir & Co, New Bungalow,  
Melvishaiam, N Arcot Dt  
Sylvester Sequeira, Hampankatta,  
Mangalore

### N. W. F. PROVINCE.

Seth Abdul Rehman, Haripur,  
Hazara City

### ORISSA.

M K K T Naina Mahomed &  
Sons, Bhapui, Berhampur,  
(Ganjam), B N Ry

### PUNJAB.

Allah Yar Abdulla, Mianwali  
Ghulam Hussain Ghulam Hassan,  
Mianwali  
Gul Mohd Ahmed Yari, Mianwali  
Haji Rahim Bakhas Haji Sher  
Mohammad, Kasur  
Haji Sher Mohd, Outside Pattuan-  
wala Gate, Kasur

### UNITED PROVINCES.

Buksh Elahi & Co, Leather Mar-  
ket, Agra  
Cawnpore Leather Industries  
(Regd), Meston Rd, Cawnpore  
Dayal Bagh Tannery, Dayal Bagh,  
Agra.  
Ebrahim Bhai Lalji, La Touche  
Road, Cawnpore  
India Leather Factory, Civil  
Lines, Moradabad  
Monawar Din Nazir Mohammed,  
Hingki Mandi, Agra  
S H Mohd Osman Abdul Rashid,  
Adalat Pura, Moradabad  
S Nazir Mohammed & Son, Opp  
Shoe Market, Agra  
Upper India Commercial Leather  
Co, Cawnpore

### BOMBAY CITY.

Bombay Leather Goods Depot,  
98-100, Bhajipala Lane, Bom-  
bay  
Dawoodbhai Hassam, 147, Dhaboo  
St, Bombay.  
Eastern Leather Works, Bhatia  
Sanitarium, Panchana Samaj  
Junc Corner of Sandhurst Rd,  
& Gligam Back Rd, Bombay

For full process of manufacture of phenyle read **DISINFECTANTS & ANTISEPTICS**, Re. 1/12. Industry Book Dept., Calcutta

Elgin Leather Wares Ltd, 59, Esplanade Road, Fort, Bombay  
Gold Filled Leather Works,  
157-61, Princess St, Kalbadevi,  
Bombay 2

Haji Abdul Wahid Munnibax, Rehmat Bldg, Pydhowme Junc., Bombay

Ideal Leather Works, Kitab Mohal, 1st, Floor, 192, Hornby Rd, Fort, Bombay

Kamruddin Adamji & Co, 449, Bhendy Bazar, Bombay

Lalvani Bros, Taj Building, 210, Hornby Road, Bombay

Leather Kit Mfg Co, 34, Pydhoni Road, Khaduck, Bombay 9

Madias Leather Works, 6, Swadeshi Market, Kalbadevi Road, Bombay 2

S M Menty & Co, Elphinstone Circle, Fort, Bombay

#### BOMBAY PRESIDENCY.

Abdullahai & Co, Budhwar Peth, Poona 2 (Suit Cases)

Apaji S Desai & Co, Desaiwago, Nadiad, Gujrat

Basaveshwai Leather Goods, Shahapur, Belgaum

Indian Leather Goods Manufacturing Co, Shahapur, Belgaum

Indo American Leather Co, Nadiad, Kaira Dt

Western Indian Tannery Ltd, Dharawi, Bombay.

#### CALCUTTA.

Aiya Bhandar, 90-2A, Harrison Road, Y M C A Bldg, Calcutta

Bangaluxmi Leather Works, 7, St James Square, (Bowbazar), Calcutta

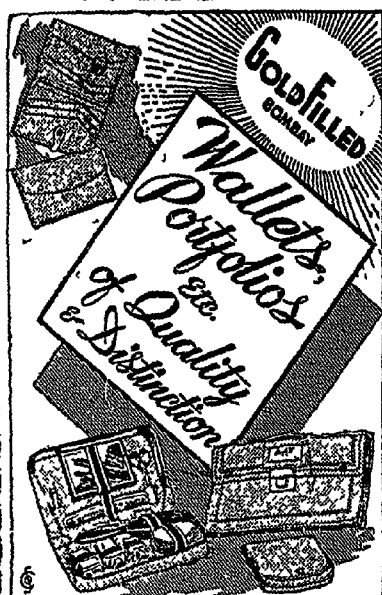
Cential Stores, 90-5A, Harrison Road, Calcutta.

Chowdhury Bros & Co, 90-4A, Harrison Road, Calcutta

Dewan Chand & Sons, 218, Harrison Road, Calcutta

Fidal Leather Co, 7, Bentinck St, Calcutta

J Choudhury & Co, 14, Old China Bazar St, Cal



The Manufacturers  
**GOLD FILLED LEATHER WORKS**  
BOMBAY 2

The undisputed  
Leaders for more  
than a quarter cen-  
tury as manufactur-  
ers of Leather,  
Canvas and Fibre  
Travel Goods, Fancy  
Leather Goods and  
Footwear.

**The Gold Filled  
Leather Works,**  
BOMBAY, 2.

Branches —

Peerbhari Mansion, Bombay, 4.  
Gandhi Road, Ahmedabad.

Jalaluddin & Co., 14, Bentinck St., Calcutta

Jewel & Co., 93-4, Bakul Bagan Rd., Cal

M Hussain & Co., 10, Old China Bazar St., Cal

National Trunk Mfg Co., 12, Old China Bazar Street, Cal

Nazarally Badruddin, 32 Jackson Lane, Cal

P Basak & Co., 29A, Durga Charan Mitra St., Cal

S A Latif & Co., 59, Canning St., Calcutta

Victoria Fine Leather Works 72, Harrison Rd., Cal

#### CENTRAL INDIA.

Central India Equipment Depot, Main St., Mhow (Harness)

K Gulamhussain, Main Street, Mhow

#### CENTRAL PROVINCES

Ramjiwan Bios, Jonesgunge, Jubbulpore

#### DELHI

Valma Leather Factory & Tannery, Ld., Kashmere Gate, Delhi

#### INDIAN STATES.

Gulam Mohideen & Co, Doddapet, Mysore

Gwahor Leather Factory, Morar, Gwalior (Tannery & Tent)

**Haji Vallimohomed Allimohomed & Co.,** P O Box No. 44, Rajkot, Kathiawar

Jos Leather Works & Catholic Depot, High Road, Trichur.

M Moosa Raja Saheb & Sons, 24-25, Meenatchi Koil St., Bangalore Cantt

Royal Leather Works Co Tower Road, West, Nagercoil, (SI).

#### KARACHI.

Ahmed Moosa & Bros, Karachi

#### MADRAS CITY.

A M Hussain & Co, 15, Mannadv Street, G T, Madras

Chrome Leather Co, Eirabalu Chetty Street, Madras

Diamond Leather Goods Co., 9, Broadway, G T, Madras

J P Hussain & Co, 172, Broadway, Madras

Madras Chrome Factory, Broadway, Madras

## Wholesale Dealers and Largest Stockists in East India.

Manufacturers of Decent and Durable Leather.

Watch Straps and Leather Money Purses of superior quality.

ASSORTED VARIETIES OF BOTH HIGH AND LOW PRICES AVAILABLE

Sample set of leather watch straps of 40 different designs sent for Rs. 8/-.

*Prices of Purses on application Write for Free Catalogue.*

## S. A. LATIF & COMPANY,

59, CANNING STREET, CALCUTTA.

**MADRAS PRESIDENCY.**

Dasarpunam Leather Works,  
Dasarpunam, Tinnanur, R S  
M A Jamal & Bros, Bezwada  
S P Shunmugam Leather Works,  
Tirunelveli J, S India

**ORISSA**

M K K T Naina Mahomed &  
Sons, Bhapur, Berhampur,  
(Ganjam)

**PUNJAB.**

Delhi Boot House, Ferozepur  
Cantt  
Durga Peishad & Sons, Durga  
Chaman Road, Ambala Cantt  
Eden & Co, Sialkot City  
Indian Military Boot House, Am-  
bala Cantt  
Mohamed Hussain & Sons, Sadar  
Bazar, Rawalpindi  
Sh Inayat Ullah Mohd Aboulla,  
Saigodha  
Sham Lall & Sons, 91 The Mall,  
Simla  
Wazirabad Tannery, Wazirabad

**UNITED PROVINCES**

Agarwal Leather Works, Meston  
Road, Cawnpore

Anglo-Asiatic Leather Works,  
91-3, Puriwa Humam, Cawn-  
pore

**Anglo-Indian Boots Trading Com-  
pany**, Tikunia Bazar, Agra  
Army & Police Equipment Sup-  
ply & Co, P O Box No 36,  
Cawnpore

Asiatic Leather Co, Cawnpore

Attractive Leather Factory, Mis-  
sini Bazar, Cawnpore

Bhannon Peishad & Co, 44-11,  
New Chowk, Cawnpore

Cawnpore Industrial Works, Iqbal  
Manzil, Faizam St, Cawnpore  
Cawnpore Tannery Ltd, Cawn-  
pore

Century Leather Co, Puriwa Huma-  
man, Cawnpore

Curzon Leather Works, Cawn-  
pore

Eastern Tanneries Limited, Cawn-  
pore

Fine Leather Art Co, Beconganj,  
Cawnpore

Grand Leather Manufacturing Co,  
Missini Bazar, Cawnpore

Great Indian Leather Works,  
Missini Bazar Cawnpore

## **ANGLO INDIAN BOOTS — TRADING COMPANY —**

(ESTD. 1915).

**TIKUNIA BAZAR, AGRA, (INDIA).**

*Suppliers of:—*

Every kind of Boots & Shoes, Military &  
Civil requisites and all kinds of leather goods.

PRICE MODERATE

WANTED AGENTS IN FOREIGN COUNTRIES

H N Tandon & Bros, Maithan St, Agra.  
 Halim Boot Factory, Cawnpore  
 Hindustan Tanneries Ltd Jajmou Road, Cawnpore  
 M Hashim & Sons, Near Civil Hospital, Cawnpore  
 M I Shah, B C Bazar, Meerut Cantt  
 M L General Leather Works, Near Akhara, Cawnpore  
 Maula Bukhs & Sons, Cawnpore  
 Mewa Lal & Co, New Chowk, Cawnpore.  
 Model Industries, Dayalbagh, Agra  
 Motilal & Bros, Daulpurwa, Cawnpore  
 N A Mukhtar & Co, Hing Mandi, Agra

National India Leather Works, Chuni Mohal, Cawnpore  
 North West Tannery Co, Cawnpore  
 Prova Commercial House, Parade, Cawnpore  
 Rai Leather Works, P Road, Cawnpore  
 S Mohammad Ismail & Co. Meston Road, Cawnpore  
 S Shamshad Mohd & Sons, Meston Rd, Cawnpore  
 Sd Md Nasseeruddin Ahmad "Sumna," Nihtau, Bijnor Dt  
 Sial Leather Works, Meston Rd, Cawnpore  
 T D Leather Goods Mfg Factory, Daulpurwa, Cawnpore  
 Tarachand Leather Works, near Akhara, Cawnpore  
 West End Leather Co, Cawnpore

### LIME DEALERS.

#### ASSAM.

Atul Ch Banerjee & Co, Gauhati

#### BENGAL.

Shaw & Co, 3 Punjab Line, Howrah

#### BOMBAY

Atmaiam Bros, Thakurdwar Mortar Mill, 340, Gungaum Road, Bombay

B Chandulal & Co, End of 1st Carpenter St, Khetwadi Main Road, Mahadevbaug, Bombay.

Bharat Lime Mart, Opp Imperial Bank, Duncan Road, Old Parsi Statue, Bombay

Esa Ahmed Chunawala, Sand Bunder, Darukhana, Mazagaon, Bombay.

Esmail Alimohamed Chunawala & Co, 180-182, Bapu Khote St. Jambli Moholla, Bombay

Fazluddin Ibrahim Chunawala, Near Water Pipe, Chinch Bunder, Bombay

Haji & Co, 273, Upper Duncan Road, Two Tanks, Bombay

#### CALCUTTA

Calcutta Shell Lime Agency, 26-3, Surah 3rd Lane, Calcutta

Dyer's Stone Lime Co, Ltd, 102, Clive Street, Calcutta

Ghosh & Co, Ballygunge Rly Siding, Calcutta

#### MADRAS PRESIDENCY.

A Muniswamy Mudahai, Kanker Lime Suppler, Nandalore, Cuddapah Dt

Bangaru Naidu, Big Conjeeveram.

#### PUNJAB.

A. N. Malik & Sons,

J/246, Arya Moholla, Rawalpindi (High grade Lime & Limestone Above 99% purity for sugar, paper and chemical Industries)

Bk Des Raj Bhasin & Sons, Lilla, Dt Jhelum

Pioneer Lime Co, Chawinda, Sialkot

Thakar Kartar Singh, Janyhua, Campbellpur

Wah Stone & Lime Quarry, Ltd, Hasanabad, N W Ry

#### UNITED PROVINCES

Anant Ram Tandon, Bazar Jhoulal, Talibagh, Rai Bareilly Rd, Lucknow

Gopi Mohan Juhli Khuid, Cawnpore

H Ikramul Haq, Risapana, Dehra Dun

Lalta Prosad Sushil Chand, Halsey Road, Cawnpore

Complete information on manufacturing all sorts of milk products is contained in "Milk & Milk Products," Re. 1/12. Industry Book Dept, Cal

**LIME MANUFACTURERS.**

**BENGAL.**

Bengal Lime & Stone Co, P O.  
Jainti, Jalpaiguri Dt Factory:  
—Birmatrapur, Singbhum  
Murulia Lime Works, Madhu  
Kunda, B N Ry  
Ondal Lime Works, Ondal, Burd-  
wan  
Provincial Bauxite & Stone Lime  
Co, 109, Panchanantola Road,  
Howrah (Also Stone)

**BIHAR.**

Gulab Seth & Co, Baddan Bazar,  
Hazariabagh

**BOMBAY.**

Abdulla Haji Abdul Rehman  
Patel, Near Dhun Mills, Parel,  
Bombay

**CALCUTTA**

Bisra Stone & Lime Co, Ltd,  
Mng Agents Bldg & Co,  
Chartered Bank Bldg, Cal  
Burma Lime & Chemical Co,  
Ltd, M/Agent —S C Chunder  
& Co, 5, Clive Ghat St, Cal-  
cutta  
Chemical Lime Mfg Co of India,  
102-1, Clive Street, Calcutta  
Works —Nagod, C I, (G I P  
Ry.)  
Dyers Stone Lime Co, Ltd, 102,  
Clive St, Calcutta B1 Katni &  
Delhi  
East India Lime Co, 7, Andul  
Raj Road, Kalighat, Calcutta  
Ganesh Katni Lime Works,  
199-1-1, Upper Chitpore Rd Cal  
Kalyanpur Lime Works, Ltd, 2,  
Clive Row, Calcutta  
Kuchwal Lime & Stone Co, 22,  
Canning Street, Calcutta  
Sutna Stone & Lime Co, Ltd,  
4, Fairlie Place, Calcutta  
Svilhet Lime Company Ltd, 4,  
Fairlie Place, Calcutta

**CENTRAL PROVINCES**

C L Pathak Lime Works Katni

C P Lime & Stone Works, Katni  
G H Cook & Sons, Katni.  
Ghatak Bros., Lime Works, Katni  
J L Sheodayal Bros, Katni.  
Jai Gopal Chaudhury Lime  
Works, Katni.  
Mishra Lime Works, Satna  
Mohai Singh Bholanath, Katni.  
N M. Dubash, Lime Factory,  
Katni, C P (Branch —Jukehi).  
Paraghat Lime Stone & Dol-  
omite Mines, Paraghat, Bilaspur.  
Sawaliam Subhikaran, Katni  
Seth Bagaimal Lokmandas  
Katni  
Sohawal Stone & Lime Works.  
Satna, G I P Ry  
T. Ram, Nivas Singh Lime Works.  
Katni, C P  
Tribeni Prashad Agarwal, Katni  
Venkat Lime Works, Katni

**DELHI.**

Diwan Lime Company 2, Keeling  
Road, New Delhi  
Lakshmi Stone Lime Co, Ajmere  
Gate, Delhi  
New Imperial Stone Lime Co,  
Outside Ajmere Gate, Delhi

**INDIAN STATES.**

Gujrat Lime Works Gendigate  
Road, Baroda.  
Kotah Lime Factory, Rampura.  
Kotah  
Maihar Stone & Lime Co, Mai-  
har, G I P Off 14 Haie St.  
Calcutta

**MADRAS.**

Crescent Lime Works, 3, Sing-  
anna Chetty Street, Mount Rd,  
Madras

**PUNJAB.**

**A N. Malik & Sons,**  
J/246, Aiya Moholla, Rawal-  
pindi (High grade Lime &  
Limestone Above 99% purity  
for sugar, paper and chemical  
Industries)

**LINSEED OIL MANUFACTURERS.**

Banshidhar Bainnath Oil Mills,  
32-4, Sahitya Parishad Street,  
Calcutta

Bhagat Oil Mills, 32-4, Sahitya  
Parishad St, Calcutta  
Mohin & Co 44 Beadon Row  
Calcutta Factory Lilloah

**MONEY MAKING BY THE MAIL** by K. M. Banerjee reveals the secrets  
of mail order business Rs. 2. Industry Book Dept., Shambazar, Calcutta.

**LITHO PRINTERS.**

Bathiboi Litho Works, 93-3, Sankli St., Byculla, Bombay  
 Bolton Fine Art Litho Works, Tardeo, Bombay  
 Bombay Fine Art Litho Works, Sussex Road, Near Victoria Gardens, Bombay  
 Calcutta Art Studio (Estd 1885), 185 1, Bowbazar St Calcutta  
 Caxton Litho Works, Chinna-thambi Street, Madras  
 D C Chunder & Co. 42-1, Bowbazar Street, Calcutta  
 Dnyansagai Litho Press, Khatau Wadi, Gurgaum, Bombay  
 Eagle Lithographing Co, Ltd, 26, Christopher Road, Entally, Calcutta (Offset Printers)  
 Famous Cine Litho & Typo Works, Near Simplex Mill, Clarken Road, Bombay  
 Imperial Art Cottage, 1-A, Tagore Castle Street, Calcutta

Indian Press Ltd, 93-A, Dharamtala Street, Calcutta  
 Jagadishwar Type & Litho Printing Press, Gurgaon, Gaywadi, Bombay 4  
 Karnodaya Litho & Printing Press, 100, Jairazbhoy Street, Foras Road, Bombay  
 Maharashtra Litho Press, Sadashih Peth, Poona 2  
 Model Litho & Printing Works, 66-1A, Baitakkhana Road, Cal  
 Papodine Press, Papodine St, Danishmand Mohalla, Amroha  
 Premier Offset Works, Swadeshi Mills Property, Charni Road, Gurgaum Post No 4, Bombay  
 Ravi Udaya-Vuaya Photo Litho Offset Works, Ghatkopar. (Near Bombay)  
 Senafelder Litho Works, 242, Bellasis Road, Bombay 8  
 Shil Krishna Arts Litho Press, Gurgaon Rd, Bombay

**LIVE STOCK DEALERS.**

Baldwin Piggery, 51, New Market, East Range, Calcutta  
 Coleyana Estate Ltd, Coleyana, Near Okara, Punjab (Horse)  
 Imperial Cattle Breeding Farm, Kairat

R S Hait Bios, 9, Store Road, Ballygunge, Calcutta (Horse)  
 World's Animals Supply Co, Agia

**LOCK MANUFACTURERS.****BENGAL.**

Calcutta Lock Factory, Gopalpur, 24-Paigs  
 Radha Krishna Lock Factory, Gopalpur, 24-Parganas

S C Dass & Co, Mansinghpur, Pantihal, Howrah  
 S N Dhawa & Sons, P O Jujaisa, Village Subbaraiaha, Howrah Dt (Manufacturers of Brass Rim & Drawer Locks and Machine Screws & Nuts etc)

**AZAD & Co. (REGD) ALIGARH UP INDIA**

MANUFACTURERS

HIGH CLASS LOCKS EMBOSING, TABLET & VERMECELLI MACHINES, BRASS & RUBBER STAMPS, SOAP DIES NAME & MOTOR PLATES, SEAL, BUTTONS, ELECTRIC & BUILDING FITTINGS SAFES HINGES CHAPRASES, BADGES, BLOCKS, WHISTLES PLIERS SCALES, DEMIES, STATIONERY ARTICLES ETC.



DETAILED CATALOGUE ON DEMAND • AGENT/ WANTED EVERYWHERE



**BOMBAY CITY.**

Godrej & Boyce Mfg Co, Ltd,  
Lal Baug, Parel, Bombay  
Vulcan Safe Mngf Co, Sandhurst  
Road, Bombay

**CALCUTTA.**

A L S Jamal Mohamad, 51, Col-  
lege St, Calcutta Br 3, Chand-  
ney Chowk St, Calcutta  
Dass & Co, 61, Belgachia Road,  
Calcutta  
Diamond Metal Products Co, 22,  
Raja Woodmunt Street, Cal-  
cutta Works—Hantal, P O  
Pantihal, Howrah (We Manu-  
facture Brass Locks & Lat-  
ches, Machine Screws & A R  
P Buckles etc)  
Honesty Lock Works 54, Canning  
St Calcutta  
Mannu Lall, 55-1, Canning St,  
Calcutta  
Mazumdar & Co, 113, Manohar-  
das Chowk, Calcutta

**DELHI.**

Kishan Lal & Sons, Chandni  
Chowk, Delhi

Laubs Import Agency, Deputy-  
ganj, Delhi

**INDIAN STATES.**

Gulab Jagjivan Boodh, Jamnagar,  
Kathiawar (Nut Crackers)

**MADRAS PRESIDENCY.**

P Govinda Pillai, Kumbakonam,  
Tanjore  
R Rajalingam & Co, Bengalee  
St, Dindigul, Madurai

**ORISSA.**

Naishing Maharana, Mandasa,  
Ganjam

**PUNJAB.**

M Faqur Mohd & Sons, Sialkot.

**UNITED PROVINCES**

Arya Button & Metal Works Co,  
Sultan Sarai, Aligarh

**Azad & Co.,** Regd ) (Azad Lock  
Factory), Government Contrac-  
tors, Pannagunj, Post Box 13,  
Aligarh, U P

**Ball's Manufacturing Co,** Madai  
Gate, Aligarh (Manufacturers  
of Lock and Embossing Ma-  
chines)

# DIAMOND METAL PRODUCTS CO.,

22, Raja Woodmunt Street,  
CALCUTTA.

Works:—HANTAL, P O. PANTIHAI, HOWRAH.

*Manufacturers of*

BRASS LOCKS & LATCHES,  
MACHINE SCREWS AND  
A. R. P. BUCKLES, Etc., Etc.

Bharat Rashtriya Karyalaya, Aligarh	Khyber Trading Co. Turkman Gate, Aligarh
Bholanath & Co, 36, La Touche Road, Lucknow	Krishna Metal Works, Shalpara Street, East Gate, Aligarh
Chhitamal Shankarlal Misra & Sons, Aligarh	Locks Foundry, Baniapara, Aligarh Also Embossing Machines
Chobas & Co, Brij Basi Lock Factory, Aligarh.	Luxmi Lock & Engraving Works, Aligarh & Agra
Coronation Lock & Metal Works, Aligarh	M S Brotheis, Khun Ganj, Farukhabad
Govila Lock Works, Aligarh	Mahatma Gandhi Lock Works, Jaiganj, Aligarh
Indian Electric Lock Works, Jaiganj, Aligarh	Marwari Lock Works, Mahipara Street, Aligarh
Industrial Factory & Lock Works, Opp Jaiganj Post Office, Aligarh	Mital Lock Works, Aligarh.
International Lock Factory, 14, Kalia St, Aligarh	Shri K R Jhan & Co, Aligarh
J W Misra & Sons, Turkman-gati, Aligarh	Singhal & Company, Manek Chowk, Aligarh
Jain Lock Factory, Jain Street, Aligarh	Sparling Patent Lock Works, Sparling Road, Aligarh
Johry Lock Factory, Pakki Sarai Street, Aligarh	Sunrise Metal Factory and Trade Agency, Aligarh
K B Lock Works, Serial Kutab, Aligarh	T L Sharma & Co, Naurangabad, G T Road, Aligarh
	Tandon Metal Works, Agra
	Wahidia Lock Factory, Bani Israil, Aligarh

### LOZENGES MANUFACTURERS.

(See Confectionery Manufacturers)

### LUNGEE MERCHANTS.

H K Chowdhury & Co, 65, Lower Chitpore Rd, Calcutta	S H Badsha Sahib & Co, 52, Angappa Naick St, Madras
M Abdul Gunny & Co, 56, Lower Chitpore Rd, Calcutta	S S Varadaraja & Co, 56, Lower Chitpore Road, Calcutta
M M S Magdoo & Co, 57, Lower Chitpore Road, Calcutta	V. Govinda Mudahar Sons, 14, Bunder St, G T, Madras

### MACHINERY DEALERS.

(Also see under Tools Merchants)

#### BENGAL

Ananta Chatterjee & Son, 200, Behlhos Rd, Howrah
D K Das & Co, Ltd, 233, Behlhos Road, Howrah
S P Guchait & Sons, 2, Madhu Sudan Pal Chowdhury Lane, Howrah

#### BIHAR

Calmoni Jute Machinery Factory, Jamshedpur.
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#### BOMBAY CITY

A C Bottomley & Co, Stronach House, Graham Road, P O Box 963, Bombay
--

A Doshi & Co, Vithaldas Chambers, Bruce St, Fort, Bombay
Ajmera & Co, Atlas Mill Compound, Opp Station, Reay Rd, Bombay.
Alcock, Ashdown & Co, Ltd, 16, Bank Street, Fort, Bombay
Asea Electric Ltd, Feltham House, Ballard Estate, Bombay.

Automatic Machine Co (India), Ahmedabad House, Wittet Rd. Ballard Estate, Bombay, 8, Esplanade East, Cal
Bathboy & Co, Forbes St, Fort, Bombay

Drink & Sell Syrup. MANUFACTURE OF SYRUP Explains the process INDUSTRY BOOK DEPT., Shambazar, Calcutta

Crown Iron & Steel Works Co.,  
Wadala Road, Bombay 15  
Dawoodbhoy Noorbhoy Choonia,  
86-A, Sukhlaji St, Next to  
Bohia Dawood Baug, Kamathi-  
pura, Bombay

Duncan Stratton & Co., 5, Bank  
Street, Bombay.

Economy Engineering Co., 37, Kir-  
li Building, Forbes St, Fort,  
Bombay.

Electric Cable & Machinery Co.,  
46-47, Forbes St., Fort, Bom-  
bay.

Electric Light & Power Equip-  
ment Co., Khattau Building, Old  
Custom House Road, Fort, Bom-  
bay

Eluch D Engineer & Co., Cross-  
by House, Apollo St, Bombay

Greaves Cotton & Co., Ltd., 1,  
Forbes Street, Bombay, 4, Mis-  
son Row, Calcutta; Ahmedabad,  
Lahore, Madras

Guest Keen Williams Ltd, Const-  
truction House, Ballard Estate,  
Bombay; 7, Council House St,  
Calcutta

H M Mehta & Co., Apollo Street,  
Bombay

**Hardcastle, Waud & Co., Ltd.,**  
H O Alice Buildings, Hornby  
Road, Bombay Br—Calcutta,  
Colombo, Karachi & Madras

Indo-European Machinery Co.,  
Sambava Chambers, Sir Phiroz-  
shah Mehta Road, Bombay

Industrial Engineering Co., 45,  
Apollo Street, Fort, Bombay 3

Kapri Bros., 181, Nagdevi Street,  
Bombay 3

Kantilal Bhogilal & Co., 68, Nag-  
devi Cross Lane, Bombay

Killick Nixon & Co., Home St,  
Bombay.

M H Dinshaw & Co., 105-106,  
Apollo St, Bombay

Macbeth Bros & Co., Post Box  
No 119, Bombay, 7, Council  
House St, Calcutta

Manoel & Co., Jai Mahal, 550,  
Kalbadevi Rd, Bombay.

Mather & Platt Ltd, Bruce St,  
Fort, Bombay

Mukand Iron & Steel Works Ltd.  
Fort, Bombay.

Nowrosjee Wadia & Sons, Bal-  
lard Estate, Bombay

Oriental Engineering Co., 25,  
Forbes St, Fort, Bombay

Ormerods (India), Ltd, Bank of  
Baroda Bldgs, Apollo St, Bom-  
bay

P B Shah & Co., Lohar Chawl,  
Bombay & 29, Clive St, Cal-  
cutta.

P. N. Mehta & Company, 324,  
Hornby Road, Fort, Bombay

P R Wallace & Sons, Patel  
House, 10, Church Gate Street,  
Fort, Bombay

Popatlal Girdharilal & Co., Apollo  
Street, Bombay

Practical Engineering Co., 92-94,  
Gurgaum Road, Bombay 4

**Precision Machine Tool Agencies,**  
Warden House, Sir P Mehta  
Road, Fort, Bombay Br—Ah-  
medabad

S Mitra & Co., 210, Gurgaum Rd,  
Bombay Br—30, Bentinck St,  
Calcutta.

S R Bomanji, Forbes Street,  
Fort, Bombay

Turner Hoare & Co Ltd, Apollo  
Bunder, Bombay

W H Martin, Ltd, Ahmedabad  
House, Witter Road, Ballard  
Estate, Bombay

#### BOMBAY PRESIDENCY.

G A. Lati & Sons, Revdibazar,  
Ahmedabad

Imperial Iron Works, Kankaria  
Road, Ahmedabad

Marvel Engineering Co., Broad-  
way Hubli

Star Iron Works, Tel Khunt, Al-  
mednagar.

Sukhlal Devchand, Bazar Street,  
Dharampur, Surat

#### CALCUTTA.

A S Abdullahbhai & Co., 81  
Clive Street, Calcutta

Abdul Hussain Hassanbhai & Co.,  
93-2, Clive St., Calcutta

Agarwal Engineering Co., 30,  
Stand Road, Calcutta

Alfred Herbert (India) Ltd, 13-3,  
Stand Rd, Calcutta

- All India Spring Manufacturing Co.**, (Original Firm), 1, Old Kan-sari Patty, (Off 69, Clive St.), Calcutta Phone Cal 2517 Telegrams "Springshop"
- Alsales Ltd**, 30, Bentick Street, Calcutta
- B M Singh & Son**, 1, Crooked Lane, Calcutta
- Balmer Lawrie & Co., Ltd**, 103, Clive St, Calcutta (Also Ballard Estate, Bombay)
- Bamungachi Machinery Industries**, 73 4, Dasarath Ghosh Lane, Calcutta
- Belgachia Engineering Workshop**, 90, Belgachia Rd, Calcutta
- Bengal Engineering Co., Ltd**, 12, Clive Street, Calcutta
- Bengal Machinery Co.**, 5, Clive Ghat Street, Calcutta
- Bery Bros**, 15, Clive St, Cal
- Bharotiya Engineering Works**, 370, Upper Chitpur Road, Calcutta (Telephone BB 4945, Telegram Chamfered Calcutta)
- H O Shahibganj, Bihar**
- Bud & Co.**, Chartered Bank Bldgs, Cal (Also Bombay)
- Budridas Fulchand**, 78, Clive St, Calcutta
- Burn & Co.**, 12, Mission Row, Calcutta (Also Mazagaon Rd, Bombay)
- Calcutta Spring Mfg Co** 84-A, Clive Street, Calcutta (For Springs etc)
- Central India Machine Co.**, 155, Dharamtolla St, Calcutta
- Crossley Bros, Ltd**, 4, Fairlie Place, Calcutta
- Daniel Adamson & Co, Ltd**, Clive Bldgs, 8, Clive St, Calcutta
- Denis Malcolm & Co, Ltd**, Clive Bldgs, Calcutta (Tools)
- Domestic Machines Marketing Co**, 11, Sun Yat Sen St, Cal
- Douglas Fraser & Sons Ltd**, 9, Clive St Cal (Jute Textile)
- G Naram & Co.**, 93-1H, Baitakkhana Road, Calcutta
- General Electric Co (India), Ltd**, 26 Magnet House, Central Ave Cal, Ballard Estate, Bombay
- General Export Co.** 1, British Indian Street, Calcutta
- Geo Miller & Co, Ltd**, 7, Hastings Street, Calcutta
- Glenfield & Kennedy Ltd**, 4, Fairlie Place, Calcutta (Also Ballard Estate, Bombay)
- Goolamally Tyebally & Co.**, 30-2, Clive Street, Calcutta
- Graphic Machinery & Appliances Ltd**, Bharat Bhavan, Calcutta.
- Harima Engineering Works**, 69-1, Belgachia Road, Calcutta. (Manufacturers)
- Heroes Engineering Works**, Pal Street, Shambazar, Calcutta
- Hoare Miller & Co, Ltd**, 5, Fairlie Place, Calcutta
- India Machinery Co, Ltd**, 30, Strand Road, Calcutta Factory, Dasnagar, Howrah
- Indo-Burma Spring Mfg. Co.**, 22, Strand Road, Calcutta
- International General Electric Co (India), Ltd**, 7, Wellesley Place, Calcutta (Also Ballard Estate, Bombay).
- International Trading Co**, 12, Clive St, Calcutta Factory — P8, Park Circus
- Ivan Jones Ltd**, 8, Dalhousie Sq, Calcutta
- J Stone & Co, (India), Ltd** P40, Hide Road Kidderpore, Cal (Also Ballard Estate, Bombay)
- James Luke & Sons**, 7, Royal Exchange Place, Calcutta
- Jessop & Co, Ltd**, 93, Clive St, Calcutta
- John Thompson Wolverhampton (India), Ltd**, 4, Fairlie Place, Calcutta
- Kamala Engineering Works**, 14, Halshi Bagan Road, Calcutta
- Kanai Lal Singha, Nanda Lal Adhikary**, Office, 58, Clive St, Calcutta
- Lardner North & Co.**, 8, Strand Road, Calcutta
- M S Vernal & Co.**, Bharat Insurance Building, Central Avenue (South), Post Box 2320, Cal.
- McLeod & Co Ltd**, 28, Dalhousie Square, Calcutta
- Machinery Supplying Agency**, 40, Strand Road, Calcutta

Marshall Sons & Co., (India),  
Ltd., 99, Clive Street, Calcutta  
Ballard Pier, Bombay, 2nd  
Line Beach, Madras  
Martin & Co., 12, Mission Row,  
Calcutta  
Mather and Platt Ltd., 7, Hare  
Street, Calcutta  
Minimax Ltd., Mercantile Bldg.,  
Lall Bazar, Cal Bi —Bombay  
Miles Watson Co., Ltd., 28,  
Grosvenor House, Cal (Also  
Ballard Estate, Bombay)  
Muller & Phipps (India), Ltd.,  
Wellesley House, Wellesley Pla-  
ce, Calcutta (Also Bombay)  
**Oriental Spring Manufacturing Co.**  
8, Sil Lane, P O Tangra, Cal-  
cutta Phone Cal 3987

**P. B. Shah & Co.,** 29, Clive St.,  
Calcutta & Lohar Chawl, Bom-  
bay

Planters Stores & Agency Co.,  
Ltd., 11, Clive St., Calcutta  
Plummer Bros. & Co., 5 & 6,  
Fancy Lane, Calcutta  
Power Tools & Appliances Co.,  
2, Dalhousie Square East Cal  
Bi —Madras, Bombay, Lahore,  
Delhi, Colombo

Prabartak Machinery Trading  
Co., 61, Bowbazar St., Calcutta  
R J Alcock & Co B12, Mission  
Row Extn, Calcutta  
Roberts McLean & Co., Ltd.,  
101, Clive St, Cal  
Samuel Osborn (India), Ltd.,  
Mercantile Bldgs, Lall Bazar,  
Calcutta

Saxby & Farmer (India), Ltd., 17,  
Convent Rd, Cal  
Shankerlall Bissessarwall, 30,  
Clive St, Cal  
Shefko Ball Bearing Co Ltd, 11,  
Clive St, Cal, Bank St, Bom-  
bay

**Small Machineries Mfg. Co.,**  
22, R G Kai Road, Shambazar,  
Cal (Mnfrs of Soap, Lozenge,  
Biscuit, Tablet machinery, Fly  
Press, Thread Balling and other  
industrial machines Phone B B  
3858)

Standard Machinery Co., 86B,  
Clive St, Cal

Steam & Mining Equipment  
(India) Ltd., 7, Church Lane,  
Calcutta  
Subol Dutt & Sons, Ltd.,  
4, Clive Ghat St, Cal

**T. E. Thomson & Co., Ltd.,**  
9, Esplanade East, Cal Factory  
Di Satya Rd, Kidderpore  
United Trading Corporation, 100,  
Clive St, Cal

Urquhart Lindsay & Robertson  
Oichai, Ltd., C-6, Clive Bldg.,  
8, Clive St, Cal.  
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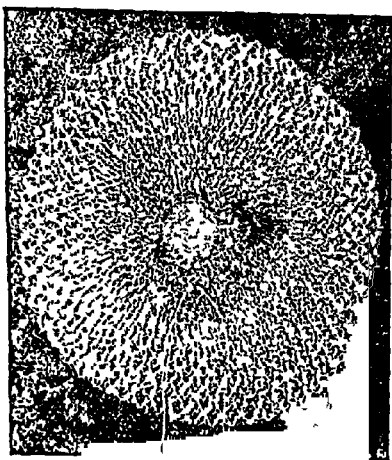
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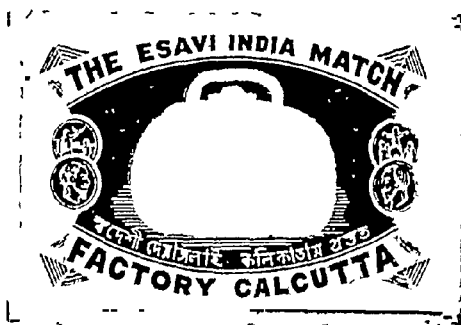
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Indo-Trading Company, Tiruvai, (S I Ry)

P Narayana Rao Chaudari, Eastern St, Ellore, W Godavari

Reddy & Co, Gopalapuram, Via Kothapet, Godavary East

Shanti Laboratory, Mudinepalli, Kistna Dt

#### ORISSA

Bharati Medical Hall, P O Chandni Chowk, Cuttack

Imperial Medical Hall, Lions Gate, Puri

Star Medical Hall, Dalapara, Sambalpur

Swami Medical Hall, Chakra Chand Bazar, Chauhiaganj, Cuttack

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 Continental Medical Stores, Gujranwala.  
 Gour Pharmacy, Ludhiana  
 National Medical House, Ry Rd, Hoshiarpur (Optical)  
 Rain Basera (Regd), Chhiam Bhan's Street, Ludhiana

**SIKKIM.**

Purna Kumar & Ratna Kumar Pradhans, Rhenock, Sikkim

**SIND.**

Punjabi & Co, Khanpur, P O Shikarpur  
 Sind Pioneer Tablet Co, near Municipal Office, Hyderabad

**UNITED PROVINCES.**

Almora Medical Hall, Almora

Colvin Medical Hall, Mall, Cawnpore.

Dehra Medical Store, Old Cantt Road, Dehra Dun

Durish Medical Hall, P O Haswa, Fatehpur

Haswa Drug House, P O Haswa, Fatehpur

Indian Medical Supply Laboratory Ltd, P O Amausi, Lucknow

Kaladhai Prasad & Sons, Nichi Bagh, Benares City

Kela Ayurvedic Pharmacy, Bijargah, Aligarh B —Agra

Keshab Deb 'Medical Hall, Lala Bazar, Almora

Krishna Pharmacy, Aligarh, (U P) Branches —Lahore & Delhi

Medical Stores 1, Ran Mill, Delhi Road, Meerut City

Sain Medical Hall, Farrukhabad

P Goswami & Son, Goswami Bldgs, Gorakhpur Dt

Shri Shyam Bihari Lal Vaidya Bhushan, Shahjahanpur

Upper India Medical Stores, Khan Nagar Gate, Meerut

**METAL FOUNDRIES.**

(See Iron & Metal Foundries)

**METAL MERCHANTS.**

(Also see Hardware & Mineral Merchants)

**ASSAM.**

Assam Engr Works, Gauhati

**BENGAL.**

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Indian Copper Corporation Ltd, Ghatsila, Singhbhum

Norongo Tin Mines, Giridih, Hazaribagh (Also Wolfiam)

Tin Plate Co of India Ltd, Golmuri, Singhbhum

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Bhagat Singh Nagi, Cemetery Rd, Sewree, Bombay (Crushed metal)

Bhogilal Jamnadas, - Kantawala Bldg, 63, Tambakanta, Pydhonie, Bombay

Bombay Tinsmithing & Metal Plate Co, 13, Koliwada, Bhandari St, Bombay

C Bhimjee Poonja & Sons, Bhimji Poonja Bldg, 20, Khoka Bazar, Bombay

Chandulal Narandas, 96, Kika Street, Bombay No 4

Expanded Metal Depot, Expanded Metal House, 91-93, Abdul Rehman St, Bombay

Fakhruddin & Co, 43, Abdul Rehman St, Pydhownie, Bombay

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Kodarlal Chandulal Parikh, 5, Aga Khan Bldg, 222, Kika Street, Bombay

P B Shah & Co, Lohar Chawl, Bombay & 29, Clive St, Cal

Rameschandra & Co, 223-35, Kika St, Bombay 2 (Non-ferrous metals)

Shalebhoj Tyebjee & Sons, Shale Bldgs, Bank Street, Bombay

Valmahomed Gulamhusain Sana wala & Co, 126, Mumbadevi, Bombay 2 (Platinum)

#### BOMBAY PRESIDENCY

Sharpura & Co, Poona 4 (Mercury)

#### CALCUTTA

Anandji Haridas & Co, Ltd, 20, Darmahatta St, Calcutta

Balmer Lawrie & Co, Ltd, 103, Clive Street, Calcutta, 5, Graham Road, Bombay

Calcutta Spring Mfg Co, 84 A, Clive Street, Calcutta (Bronze, Brass and Steel of all sections)

Chunilal Hemraj, 70, Clive Street, Calcutta (Zinc Sheet)

Geo Miller & Co, Ltd, 7, Hastings St, Calcutta

Gopal Chunder Dass & Co, Ltd, 24, Raja Woodmunt St, Cal

Indian Metals & Alloys Co, Ltd, Hide Road, Kidderpore, Cal

Jibon Krishna Dey & Bros, 77, Clive Street, Calcutta

Nanda Lal Kundu, 20, Ram Seback Mullick Lane, Calcutta

**P. B. Shah & Co.,** 29, Clive Street, Calcutta & Lohar Chawl, Bombay

P C Coomer & Sons, 54-68, Clive Street, Calcutta

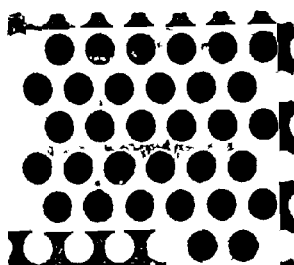
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Parsotam Das Narsingh Das, 43, Strand Rd, Cal (Zinc)

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 Standard Metal Co., 77/1, Clive Street, Calcutta  
 Standard Metals & Alloys Co, 1-1D, European Asylum Lane, Calcutta  
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**T. E. Thomson & Co., Ltd.,**  
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 Tulshi Ram Bandi Prashad, 77, Kailas Bose St., Calcutta  
 William Jacks & Co, 10, Clive St., Calcutta

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Jayant Metal Manufacturing Co,  
 Ram Gunj, Secunderabad, Dn  
**KARACHI**

Karachi Metal Mart, Fiere Rd,  
 Karachi

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Bharati Metal Products, 173, Kamla Raja Road, Madhav-nagar, Ujjain  
 Engineering Metals & Alloys Co.,  
 Chintamani Jain Temple Bldg,  
 2nd Bhowada Lane, Bhuleshwar, Bombay 2 (Manufacturers & Founders of Anti-Friction Bearing Whitemetals, Type Metals (Lino, Mono and Stereo),

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 A Mohamed & Co, 513, Linga Chetty St., Madras  
 Abdul Hussain Jeevjee & Co, 9, Linga Chetty St., Madras  
 Lala Gopikrishna Gokuldass, 119, Mint Street, Sowcarpet, Madras (German Silver)  
 S Fazulabhooy, P O Box 204, Madras

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 Gunduvuri St, Rajahmundry  
 N K R Jambakalakshmi Ammal Sons, Pothamalai North, Kumbakonam  
 Usman Sahib, Lord Napier St, Erode, Coimbatore (Tin)

#### PUNJAB.

Khem Chand Rajkumar Metal Works, Jullundur City

#### UNITED PROVINCES

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 British India Minerals & Manufacturing Co, Guidih  
 General Chemical Industries Ltd,  
 16-1, Akurur Dutt Lane, Cal  
 Indian Metal Polish Factory, Serampur, Hooghly

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Water Lily Chemical Works,  
141-2, Balanashi Ghosh St, Cal

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National Metal Industries, 1, Bagjala Road, Dum Dum, 24-Pargs, Office 10, Clive Row, Calcutta

Surjya Kumari Karmakar, Bankura, B N R

#### BOMBAY CITY.

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Bombay Laboratory Ltd, 131Q, Rose Cottage Lane, Bombay 10  
Doongursee & Sons, Post Box 890, Bombay

Lookmanji Moosajee, Diamond Bldg, Lohar-Chawl, Bombay

Punjab Metal Works, 259, Kalbadevi Rd, Bombay

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Gujarat Metal Factory, 21, Nihal Peth, Poona 2

Kant Metal Works, Station Road, Bilimora, Surat

P R Vaishampayan & Sons, 60, Main Rd, Nasik City.

Shivaji Metal Works, Main Rd, Sholapur

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Bengal Metal Works, Ltd, 117-B, Chittaranjan Avenue, Calcutta  
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Jain Works, Ujjain

#### CENTRAL PROVINCES.

Sulemanji & Co, Jubbulpore

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**Oriental Supply Company,** 71, Dayaganj, Delhi Factory Kashmere Gate, Delhi Shahdana Rd, Bareilly Railway Rd, Qadian B —Lahore, Bareilly & Qadian

Shambhu Dyal Varma & Co, Dariba Kalan, Delhi

#### INDIAN STATES.

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Premier Metal Factory, Haskote Rd, Bangalore City

#### LAHORE.

Chranjit Lal Sethi & Sons, 13, Abbot Rd, Lahore

Hashmi Metal Works, Brandreth Rd, Lahore

Punjab Sheet Metal Works, Post Box 80, Lahore

#### MADRAS CITY.

Mysore Premier Metal Factory, 396, Mint St., G T, Madras.

#### MADRAS PRESIDENCY.

Sree Narayana Metal Factory, Panagal, Kalahasti, Chittoor  
Sri Lakshmi Metal Factory, Kalahasti, Chittoor

#### ORISSA.

Radha Krishna Panda, Ishapur, P O Bahanga, Balasore

#### PUNJAB.

Diwan Shah & Sons, Rail Bazar, Gujranwala.

Kundan Mall & Baiu Lal, Mall Road, Simla.

#### UNITED PROVINCES.

A A. Metal Works, Babu Mandi, Aligarh

Industries Mills, Aligarh

Prabhakar Metal Works, Jaiganj, Aligarh.

Shanti Metal Works, Khuni Gate, Aligarh

U P Arts & Crafts Emporium, Lucknow

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Abdul Ghani & Co, Nasrabad, Ajmer

Adam & Co's Mica Mines, Kodarma, Hazaribagh

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B N Daw & Sons, Kodama Post, Hazaribagh Dt

B Sinha Ltd, P O Giridih, Hazaribagh

Bairnath & Co, P O Giridih, Hazaribagh

Behal Mica & Co, P O Giridih, Hazaribagh

Bengal Mica Stock Co, P O Giridih, Hazaribagh

Bhaironath Daulat Nath, P O Domchand, Hazaribagh

Bhaunilal Kishanlal, P O. Jhunnai Telaiya, Hazaribagh

Bombay Co, Ltd, 19, British Indian St, Calcutta.

Chatturam Horitram, Ltd, 161-1, Harrison Rd, Calcutta

Chaudhuri & Co, P O Jhumri-Telaiya, Hazaribagh

Chota Nagpur Mica Syndicate, Kodarma, Hazaribagh

Chunilal Kalyanji, P O Jhumri-Telaiya, Hazaribagh

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 Gulamally & Bios, Hararwala Bldg, No 2, 90, Lohar Chawl, Bombay  
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 Indian Mica Supply Co, Ltd, 95, Lower Chitpur Rd, Calcutta.  
 J. S. Mull & Co, Giridih  
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 Jetmull & Bhojiaj, P O Jhumri-Telaiya, Hazaribagh  
 John Podger & Co, Ltd, Kodarma, E I Ry.  
 Joy Gopal Mukherji, P O Giridih, Hazaribagh  
 K R Darsan & Co, Jhumri-Telaiya, Hazaribagh  
 Kali Ram, P O Domchanch, Hazaribagh  
 Kedarnath Ramgopal, P O Jhumri-Telaiya, Hazaribagh  
 Khaitan Sons & Co, 1, Commercial Bldgs, Clive St, Cal  
 Lekha Ram Sonaiam & Co, Giridih, EIR  
 M D Varach & Co, Jhumri-Telaiya, Hazaribagh  
 Madhavji Mepa & Co, Jhumri-Telaiya, Hazaribagh (Also Mica Mines owner)  
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 Manji Bechar, P O Jhumri-Telaiya, Hazaribagh  
 Mica Mining & Mfg Co, Jhumri-Telaiya, Kodarma, E. I Ry  
 Mica Mining & Trading Co, of India, Ltd, 12, Chowringhee Sq, Calcutta

Mitter & Co, P O Giridih, Hazaribagh  
 Mukharam Gajanand, P O Domchanch, Hazaribagh  
 Mushan Ram Budhan Ram, P O Giridih, Hazaribagh  
 Nanku Modi Chatu Modi, P O Domchanch, Hazaribagh  
 Narain Das, P O Damchanch, Hazaribagh  
 Nafhan & Co, Gudur, Nellore Dt  
 Northern India Mining Syndicate, 12, Dharramtola, St, Cal  
 Premier Mica Mining & Mfg Co, 32, Gopi Krishna Pal Lane, Calcutta  
 Qubool Ahmed Khan, Punari Mandi, Ajmer  
 R K Sahana & Sons, Kodarma  
 R K Samont & Co, P O Giridih, Hazaribagh  
 Rajgarhia Brothers, Ltd, 161, Muktararam Babu St, Calcutta  
 Ramdoyal Chogmull, P O Jhumri-Telaiya, Hazaribagh  
 Rameswailal Dedraj, 180, Harrison Road, Cal Fac.—Giridih  
 Ramsangoke Singh Ramprabesh, P O Jhumri-Telaiya, Hazaribagh  
 S Agarwala & Co, P O Giridih, Hazaribagh  
 S K Ghosh, P O Pachamba, Dt Hazaribagh  
 S P Banerji, P O Giridih, Hazaribagh  
 S Rakshit, P O Giridih, Hazaribagh  
 S S Das, Bargonda, Giridih.  
 Sarara & Co, P O Domchanch, Hazaribagh  
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 Sree Venkatasetharamakrishna Mica Mining Co, Ltd, Kalichedu, Sydapuram P O, Nellore  
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rish Banerjee Rd, Howrah**MILL STORES DEALERS.**

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Peerbhoy Building, No 2, 39,  
Princess St, BombayBabulal & Bros, 113, Nagdevi St,  
BombayBalkrishna & Bros, 71, Nagdevi  
Cross Lane, BombayBhurabhai & Co, 88, Motaji Go-  
kuldass Market, Kalbadevi Rd,  
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Damania & Co, 25, Bank Street,  
Fort, BombayDas & Co, 59, Apollo St, Fort,  
BombayDaulatram Ratanji & Co, 208,  
Nagdevi St, BombayDinubhai G Desai & Co, Jan  
Mansion, Sir Phirozshah Mehta  
Road, BombayEastern Import Agency, 207,  
Samuel Street, BombayEngineer Bros, Sir Vithaldas  
Chambers, Apollo St, Fort,  
BombayExcelsior Mill Supply Co, All  
Chambers, Medows St, Fort,  
BombayGreentose Corporation (India),  
4, Nanabhai Lane, Fort, Bom  
bay Giam GreentoseHealds & Reeds Mfg Co, of India  
Ltd, R B Motilal Mansion, 28,  
Apollo Street, BombayMasturilal Chunilal & Co, 73,  
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 J Mansuri & Sons, Post Box 92, Khodli Aml, Ahmedabad  
 Laxmi Engineering Co., Haja Patel's St., Ahmedabad Br — Hubli, Bombay  
 Masturlal Chunilal & Co., Kapasia Bazar, Ahmedabad 2  
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 Bombay Mill Store Co., 10, Canning Street, Calcutta  
 Clive Mill Stores & Belting Co., 26C, Clive Street, Calcutta

Das & Company, 22, Canning St., Calcutta

Durga Mill Stores Co., 132, Harrison Road, Calcutta

**East India Trading Co.**, 2, Church Lane, P O Box No 487, Calcutta. Tele. Add Eisex. Genuine Mill Stores Co., 184-A, Cornwallis St., Calcutta

Indian Mill Stores Trading Co., 7, Canning Street, Calcutta

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kot, Kathiawar  
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ganj, Indore City  
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mesri Dass St, Rampur State  
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dore City

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Karachi

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Deccan Sugar & Akbari Co, Ltd,  
Parry's Bldgs, 1st Line Beach,  
Madras

**MADRAS PRESIDENCY.**

Pollachi Trading Co, Market  
Rd, Pollachi, Coimbatore  
Seth Atmaram Nandaram, Bazar  
Street, Erode  
Sri Anjaneya Mill Stores, Rama  
Engineering Works, Viziana-  
gram, Dt Vizagapatam.  
United Agency Company, (Golok)  
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 Federal Motor Ltd, Scindia House, Connaught Place, New Delhi.  
 Jain Motor Car Co, Ltd, Delhi  
 Saran Motors Ltd, Queensway, New Delhi.

#### INDIAN STATES.

Aspinwall & Co, Ltd, Main Rd, Trivandrum, Travancore  
 Automobiles Ltd, Bangalore  
 Bombay Cycle & Motor Agency of Secunderabad Ltd, 52-53, James St, Secunderabad, Deccan  
 Chimanlal N Badshah, Station Rd, Baroda  
 Express Motor Co, Gulmarg, Kashmir  
 Gopinath Lal Behari, Satna  
 Hermusjee & Co, West Parade, Secunderabad, Deccan  
 Imperial Trading Co, Ranjit Rd, Jamnagar, Kathiawar  
 M Puttliah & Sons, Sayaji Road, Mysore  
 Madras Cycle & Motor Mart, 7936, James Street, Secunderabad, Dn  
 Mathuradas Samji & Co, Junagadh, Kathiawar  
 Mehta Bros, Old Para Station Rd, Rajkot Pura, Kathiawar.  
 Motor House (Guj) Ltd, Porbandar  
 Noshirwan & Co, Mahrami Rd, Indore Br —Imami Gate, Bhopal  
 Pierce Leshe & Co, Ltd, Vallatharay, Trivandrum, Travancore, Bunder, Mangalore  
 Punjab Motor Co, Gulmarg, Kashmir  
 T Stanes & Co Ltd, Alumundu Rd, Trivandrum, Travancore

#### KARACHI.

Menghraj & Co, Bunder Road Karachi

**PRACTICAL METAL CASTING**—A comprehensive treatise on the art of founding with practical details. Rs 2/8. Industry Book Dept., Calcutta

United Motors, Bunder Road,  
Karachi

### LAHORE

Kandawalla & Co, The Mall,  
Lahore

Maddens Ltd, The Mall, Lahore

Narain Das & Co, The Mall,  
Lahore, Garden Rd, Karachi

Paris Motor Co, McLeod Rd,  
Lahore.

### MADRAS CITY.

Addison & Co Ltd, Mount Road,  
Madras

Champion Automobiles Ltd, 4-186,  
Mount Rd, Madras

Gordon Woodioffe (Motors) Ltd,  
36-B, Mount Rd, Madras

Romer Dan & Co, Mount Road,  
Madras

Simpson & Co, Market Road,  
Madras (Tyres, etc)

South Indian Motor Co, Nawaz  
Mansions, Mount Rd, Madras

Standard Motor Electric Works,  
33, Mount Rd, Madras

### MADRAS PRESIDENCY

Anneesham & Co, Sultanpet, Pal-  
ghat, Malabar

Modern Motor Co, Hampankatta,  
Mangalore, S Kanara

Row Bros, Bezvada, Kistna

United Motor (Coimbatore), Ltd,  
Avanashi Rd, Coimbatore

### N W. F. PROVINCE.

Bagal Motor Works, Bannu

Hanuman Motor Co, Bannu

### ORISSA

Bell Brothers Motor Works &  
Service, Church Lane, Bala-  
sore

### PUNJAB

Dharam Chandia Agarwal &  
Bros, Karnal

Gupta Workshop, Montgomey  
Mangal Singh & Bros, Sargodha.

Noor Din & Brother Saddai Rd.  
Ferozepore

Punjab Motor & Engineering  
Works, Staff Road, Ambala  
Cantt

Royal Motor Co, Ludhiana

Seth Kanshi Ram Sons, Sai-  
godha

### UNITED PROVINCES

Bajpey Motor Co, The Mall,  
Cawnpore

Edujee Boyce & Co, Civil Lines,  
Jhansi

Kapoor Motor Stores, Moradabad.

Mau Motor Car Co, Naurangabad.  
Maunath Bhanjan

Midland Motors, 114A, Bridge-  
St, Meerut

Mohamed Ekram Khan & Co.,  
5-41, The Mall, Benares City

Motor Stores, Chauk, Fyzabad

Niranjan Lal Ram Chandia, Par-  
tabpura, Agra

Oriental Motor Works, Huzrat-  
ganj, Lucknow

## MUSICAL INSTRUMENT DEALERS.

(Also see Gramophone & Harmonium Dealers)

### AJMER-MERWARA

Rajputana Music House, Kaiser-  
gunj, Ajmer

Ram Dayal & Sons, Inside Madar  
Gate, Ajmer

### BENGAL

Agarwal Musical Co, Kulseong,  
(N Bengal)

Dacca Musical Mart, Victoria  
Park (South), Dacca

Jatin & Company, Patuatuly,  
Dacca

### BIHAR

Record House, Bankuta, B N Ry.

A C Dass & Bros, Main Road,  
Ranchi

Das & Co, Bankipore, Patna

Hindusthan Industrial Syndicate.  
Sarat Kutui, Puiulia, Manbhum.

Mukherjee Nephew & Co, Kai-  
yani, Muzaffarpur

Music & Sports Varieties, Airah

Raghunath Chowdhury & Sons  
Saiyaganj, Muzaffarpur

**PRACTICAL METAL CASTING**—A comprehensive treatise on the art of  
founding with practical details Rs 2/8 Industry Book Dept., Calcutta.

**BOMBAY CITY.**

- Alexandra Industrials, 4, Alexandra Rd, New Gamdevi, Bombay.  
 Bayne & Co., 145, Esplanade Rd, Bombay.  
 Gangaphone Talking Machine Co., 432-434, Kalbadevi Rd, Bombay  
 James & Co, Navsari Bldg, Hornby Rd, Fort, Bombay  
 L M Furtado & Co., Ltd, 540-544, Kalbadevi Road, Bombay

**BOMBAY PRESIDENCY.**

- A Annett & Co, 2432, East St, Poona N I  
 A Madhavlal Pangornaka, Ahmedabad  
 Nathubhai Naranji Modi, Jalalpur Rd, Navsari, Surat

**CALCUTTA.**

- B B Das, 1, Raja Rajendralal Mitra Road, P. O. Behaghatta, Calcutta  
 Bombay Music Mart, 11, Lower Chitpur Road, Calcutta.  
 Calcutta Musical Stores, 5, Lower Chitpur Road, Calcutta  
 Dwarkan & Son Ltd, 11, Esplanade East, Calcutta  
 G C Saha Ltd, 170, Dharamtola Street, Calcutta.  
 G Rae & Co Beed Mansion, 13C, Central Avenue (South), Dharamtola, Calcutta  
 K Edulji & Sons, 5, Dharamtala Street, Calcutta.  
 Melody, 82-A, Rash Behari Avenue, Calcutta  
 Menezes Band Suppliers, 17-G, Free School Street, Calcutta  
 Modern Musics & Sports Co, 4 & 6, British Indian St, Calcutta  
 Mullick & Varieties Ltd, 16, Russa Road, Calcutta  
 N B Sen & Bros, 11, Esplanade East, Calcutta  
 Nagina Musical Products Co., 18, Minzapur Street, Calcutta  
 R B Dass, 8-C, Lal Bazar St, Calcutta  
 Sealdah Gramophone Mart, 165, Bowbazar St, Calcutta  
 Suradhani 3-1 Russa Rd. Bhowanipuri, Calcutta

- T. E Bevan & Co, Ltd, 21, Old Court House St., Calcutta B1 — Mussoorie  
 Traders Bureau, 82, Shambazar Street, Calcutta

**CENTRAL INDIA**

- De Gueira Music House, Post Office Road, Mhow

**CENTRAL PROVINCES**

- G R Sonone & Sons, Sitabuldi, Nagpur  
 J Fernandez, Kamptee Road, Nagpur

**DELHI**

- Indel Singh Bros, Nai Sarak, Delhi  
 Maharaja Lal & Sons, 703, Chandni Chowk, Delhi  
 Marques & Company, Kashmere Gate, Delhi  
 R N Bhargava & Co, 1568, Cherkhewalan, Delhi  
 Rati Ram & Sons, Nai Sarak, Delhi

**INDIAN STATES**

- Amritlal Nagji Vakharia, Diwan Chowk, Junagadh, (Kathiawar)  
 Ever-Ready Music House, Abid Rd, Hyderabad, Dn  
 Jacobs & Co, Kottayam, Travancore  
 K M Mathews, 99, Tower St, Secunderabad, (Deccan)  
 K V Mathews, Ennakulam, Cochin  
 Krishna Gramophone House, Ajmer Rd, Jaipur City  
 M D Duttatraya & Co, Residency Bazar, Hyderabad, Dn  
 P A Rama Iyer & Sons, Trichur, Cochin State  
 Reid & Co, Reid Bldgs, Oxford St, Secunderabad, Deccan  
 Rupchand & Sons, Bhabian Bazar, Bahawalpur  
 Vyraavan & Co, Balamore Road, Nagecoil, Travancore

**KARACHI**

- Franzpaul & Son, Krishna Mansion, Inverarity Rd, Camp, Karachi  
 Hemandas Chellaiam, Bunder Road, Karachi

Khemsing & Sons, Bunder Rd,  
Karachi

### LAHORE

Babias Musical & General  
Agency, 20-F, Mayo Road,  
Moghalpura, Lahore

British Piano Saloon, 11, Sir  
Shadi Lal Bldgs, Lahore.

Gulam Nabi & Sons, 8, Brandieth  
Road, Lahore

Music House, Anarkali Street,  
Lahore

### MADRAS CITY

Hutchins & Co, P O Box No 335,  
Mount Road, Madras

M B Krishna & Co, 37, Syden-  
hams Road, P T, Madras

Madras Musical Motor & Cycle  
Accessories Mart, 27, Wallajah  
Road, Mount Rd, Madras

Mahomed Ebrahim & Co, 26 &  
27, Rattan Bazar, Madras

### MADRAS PRESIDENCY

A R Swamy & Co, New Colum-  
bia House, Srivaikuntam, Dt  
Tinnevely

Star Music House, Erode

T P Marimuthu & Co, Tanjore

Welcome Musical House, 89,  
Raja St, Conjeevaram

### PUNJAB

Drum Leather Manufacturers,  
Dinagaih, Kasur

Gregory & Co Murree

Highland Paper Co, Sialkot,

Jones Joseph Brothers, Sialkot  
City

Krimson & Co, Sialkot City

Military Bagpipe Mnf Co, Sial-  
kot

Nadu & Co, Sialkot City

Paras Ram & Bros, Solan, Simla.

Petro Brothers, Sialkot City

Remington Sports Corporation,  
Sialkot City

S Henry & Co, Sialkot City

Shyme & Co, Murree

### UNITED PROVINCES

A Ghosh & Bros, 44, Aminabad  
Park, Lucknow

A Godia & Co, Bombay Bazar,  
Meerut

Balbir Bros, Aligarh

Benares Radio Gramophone  
Stores, Godhoulia, Benares City

G Sinha & Sons, Pertabpura,  
Agra Cantt

*SUPERIOR QUALITY*

## MUSICAL INSTRUMENTS

Including Clarionets, Euphonium, Cornets, Trumpets,

L-2 Horns, Bag Pipes, Bugles, Drums, Side Drums

HELD IN HUGE STOCK BY

## GULAM NABI & SONS,

*General Merchants & Pioneer Musical  
Instrument Dealers in Northern India*

**8, BRANDRETH ROAD, LAHORE.**

**Reeds of Clarionets & Bagpipes & Accessories**

*Our Speciality*



Gramophone Mart, Canning Road,  
Allhabad  
H & F Gregory, Bombay Bazar,  
Meerut

Ram Singh & Bros, Chawk  
Bazar, Aligarh  
Singh & Co, Near Choti Deokali  
Temple, Ajodhya, Fyzabad

### MUSK DEALERS.

Kashmir Swadeshi Stores, Sina- gar, Kashmir

### MYROBALAN DEALERS.

Dawn & Co, 11, Portuguese  
Church Street, Calcutta (Estd  
1906)  
Dhairamji Travanappa Anagol,  
Belgaum, (M S M Ry)  
East India Trading Co, 2, Church  
Lane, P O Box 487, Calcutta  
Tele Add Essex  
H Bhagwandas & Co, 125, Khand  
Bazar, Bombay  
J Mohapatra, P O Chauliaganj,  
Cuttack

Khaitan Sons & Co, 1, Commer-  
cial Buildings, Clive St, Cal  
Lakhimchand Keshrichand, Betul-  
ganj P O Betul, C P  
Mahadeo Govind Madhaji & Co,  
Sahdol, B N Ry, (Rewa  
State)  
Mangtural Rewashwas, Betulganj  
P O Betul  
P Mathuradas & Co, Parasias,  
Chhindwara, C P

### NAIL MANUFACTURERS & DEALERS.

Abdulkader Shamsuddin & Co, 48,  
Khokha Bazar, Bombay  
Denis Malcolm & Co, Ltd, D-5,

Clive Bldgs, Calcutta  
Jessop & Co, Ltd, 93, Clive  
Street, Calcutta

### NAME PLATE MANUFACTURERS.

Abdullah & Sons, 37, Moti Sil  
Street, Calcutta  
Art-o-Craft Company, Post Office  
Road, Sialkot City  
Azad & Co, (Regd), Post Box

13, Aligarh, U P  
J R Lalwani, Near Barracks, Re-  
sidency, Indore (Aluminium)  
Jain Brass Factory, Palki Khana,  
Aligarh

### NAPHTHALENE BALLS MANUFACTURERS.

H Mumtaz & Co, 1, Colootola St,  
Calcutta Factory —11, Swinhoe

Lane, Ballygunge, Calcutta

### NEON SIGN MAKERS.

Brilliant Neon Sign Co, 43,  
Churchgate St., Bombay  
Neon Lighting Co, Scindia House,  
Connaught Circus, New Delhi

Neon Signs-Champion, Chandni  
Chowk, Delhi  
Neon Signs (India), Ltd, 8, Land-  
say Street, Calcutta

### NEWS AGENTS.

Associated Press, Ltd, Parliament  
Rd, New Delhi 26-7, Dalhousie  
Sq, Cal, McLeod Rd, Karachi,  
80, Cantonments, Cawnpore  
Chronicle News Service, Srinagar,  
Kashmir  
Evergreen Agency (Regd), Post  
Box No 323, Lahore  
Journalistic Photo Service, Rail-  
way Road, Gujrat, Punjab

Photo News Agency, 26, General  
Pattens' Road, Madras  
Press Photo Bureau, 151, Big  
Street, Madras  
R B Luktuke, Kolhapur  
Reuters Ltd, 7, Haie Street,  
Calcutta  
S Nagappa Pillai, Kollengode  
P O, S I R  
United Press of India Ltd, H O  
P4, Ganesh Ch Avenue, Cal

**CLERK'S MANUAL**—A comprehensive manual for the guidance of  
Clerks. Re. 1/4. Industry Book Dept., Shambazar, Calcutta.

**NEWSPAPER AGENTS.**

- Ajit Kumar Sarker, Lohagara, Jessore  
 All India Hindi Books & Magazines Suppliers, Near the Swami Narayan Temple, Nadia, B B & C I Rly  
 Bhatia News Agency, Boulton Market & Mallot Road, Karachi  
 City News Agency, Adipnam, Waltair  
 Eastern News Agency Ltd, Parliament St, New Delhi  
 Excelsior News Agency, Santhapeta, Vizianagaram City  
 General News Agency, "Akhbari Ghar," Commercial Buildings, Railway Road Sialkot City  
 Jagan Nath Gupta, Opposite Muslim Orphanage, Parade, Cawnpore  
 Madras News Agency, 193, Mount Road, Madras  
 News Agency, Big Chetty Street, Trichinopoly  
 News Mait, Great Cotton Road, Tuticorin  
 Parkash Newspaper Agency, Hoshiarpur  
 Rama News Agency, The Mall, Simla 6  
 Saima's News Agency, Amalapuram, E Godavary  
 Sewak Sadan, Jaipur City (Rajasthan)  
 Singhal News Agency, Aligarh  
 Sree Ram News Agency, Sree Ram Institute Bldgs, Erode  
 Sri Ramkrishna Trading Co, Narasaraopet, Guntur Dt  
 T Chandu Kutty, Calicut, Malabar  
 T G Venkat Rao, Tellicherry  
 V W Bagve, Dadai, Bombay 14

**NIB MANUFACTURERS.**

- C M Karmakar & Co, Comilla  
 F N Gooptu & Co, Ltd, 12, Behaghata Rd, Calcutta  
 G. C. Law & Co., H O 2, Cornwallis Street, Calcutta Factory—22, Canal South Road, Cal  
 Ideal Pen Works, Sialkot, Punjab  
 Ishai Singh, Roberts Rd, Lahore  
 Kaushla General Trading Co, Aminabad Park, Lucknow  
 Kulkarni Bros, Bannalal Terrace, Bombay 7  
 National Fountain Pen Works, 32, La Touche Road, Lucknow  
 Factory—T G New Civil Lines (Gold Nib)  
 Nib Manufacturing Co, Ltd, Malvan Dt Ratnagiri  
 Orient Works, 22, Canal West Road, Calcutta  
 Ramchandra Industrials, Gwahar  
 Rani Nib Factory, Malvan, Ratnagiri  
 Tambot Brothers, Station Road, Lashkar, Gwahar  
 Waise Bros, Sialkot, Punjab

**NURSERYMEN & SEEDS MERCHANTS.****ASSAM.**

- Gobardhan Farm Ltd, Digaru, Assam (Tung Oil-seed Growers)  
 Titaguri Tung Estate, P O Kokrajhar, (L Assam)

**BALUCHISTAN.**

- Quetta Fruit Agency, Yate Road, Quetta

**BENGAL.**

- Agriculture & Horticulture Farm, Jagany, Murshidabad

- Belur Nursery, Grand Trunk Road, P O Belur Math, Belur, Dist Howrah  
 Darwin Rose Society, P O Belurmath, Belur, Howrah  
 G Ghose & Co, Town End, Darjeeling  
 Ghughudanga Nursery, Dum Dum Junction, Dum Dum, 24-Paisa  
 Hobbie's Nursery Dum Dum Rd, Ghughudanga, Dum Dum  
 Naurang Lal Agarwalla, P O Kalimpong, Dt Darjeeling

**CLERK'S MANUAL**—A comprehensive manual for the guidance of Clerks. Re. 1/4. Industry Book Dept., Shambazar, Calcutta.

**BIHAR.**

Darbhanga Nursery, Rusera, Darbhanga  
 Dijon & Son, Ghatsila, B N Rly  
 Grand Nursery, Darbhanga  
 Jardin Des Fleurs, P O Mihijam, E I Rly  
 Lawrence Nursery, Darbhanga  
 Maharaja Garden Nursery, Rusera, Darbhanga, (Also Fresh Fruit & Grapes)  
 Mihijam Nursery, Mihijam, S P  
 Muzaffarpur Orchard & Nursery, Muzaffarpur  
 Nelico Seeds Stores, Jhargram, B N Rly  
 P Bhattacharya & Son, Empress Jubilee Gardens, Baidyanath, Deoghar  
 Rose Garden, Mihijam, E I R

**BOMBAY CITY.**

Amin Nursery, Gugaon, Bombay  
 Bandra Florist, 18, Hill Road, Bandra, Bombay  
 Devram Ramji, Opp Victoria Gardens, Byculla, Bombay  
 Garden Supplies Co., Vile Parle, Bombay (Bona Coconut)  
 Jehangir B Irani, Masina Hospital Garden, Victoria Road, Byculla, Mazagaon, Bombay  
 Palekar & Co., Sitaram Bldg, Near Crawford Market, Bombay

**BOMBAY PRESIDENCY.**

Gujrat Seed Stores, Nadiad, Kaira  
**N. Cooper & Co.,** 21, Wellesley Road, Poona  
 Patel Seed Stores, Near New Post Office, Nadiad, Kaira  
 Pestonjee P Pocha & Sons, 8, Napier Rd, Poona  
 V Manmohandas & Sons, Ahmednagar  
**Vishnool Sadashive & Co.,** Poona 1

**CALCUTTA.**

A Bose, Ltd, 9, Flower Stall, New Market, Calcutta

Bose Sons & Co, 7, & 10, Biswas Nursery Lane, Bellaghata, Calcutta  
 Calcutta Seed House, 1-B, College Row, P O Amherst St, Cal  
 Dass' Nursery & Flower Garden, Roy Bahadur Rd, Behala, Calcutta  
 East Bengal Nursery, 256, Upper Chitpur Road, Calcutta  
 Flamings & Co, 19, Bethune Row, Calcutta  
 Globe Nursery, 25, Ramdhone Mitter Lane, Calcutta  
 Model Nursery, 5-1, Tiljala Road, Ballygunge, Calcutta  
 National Nursery, 46, Ramdhone Mitter Lane, Calcutta  
 Nurjehan Nursery, 2, Kankurgachi 1st Lane, Narkeldanga, Cal  
 P P Chatterjee & Nephew, New Market, Calcutta  
 Paradise Nursery, 49-1, Durga Charan Mitter St, Calcutta  
 Robertson & Co, 62-7, Beadon St. Calcutta  
 Royal Agri-horticultural Society, Alipuri, Calcutta (Flowers)  
 Royal Gardening Association, 59, Bentinck St, Calcutta  
 S P Coondoo & Sons, New Market, Calcutta (Florists)  
 Sutton & Sons, Ltd, 13-D, Russell Street, Calcutta

**CENTRAL INDIA.**

Nathoo Ram & Sons, Neemuch  
 Cantt C I

**DELHI**

Delhi Seed Stores, Railway Station Road, Serai Rohilla, Delhi  
 Mohan Lal & Sons Near Rekabganj, Gurdwara, N Delhi

**INDIAN STATES**

E P Ram & Sons, Alleppey, Travancore (Mango seeds)  
 Empire Nursery & Gardens Lal Bagh, Fort Rd, Bangalore City  
 International Seed Co, Lal Bagh Fort Rd Bangalore City  
 Kanhaya Lal, Bosanquet Market, Indore City  
 Kashmir Nursery Farm, Chogul Handwara, Kashmir

**The Sphere of Tea: An exposition of the Cultivation, Manufacture and Trade of Tea in India. Rs. 3. Industry Book Dept, Shambazar, Calcutta.**

M Mooniswamy, Lalbagh Road,  
Bangalore  
Majestic Nursery, Lal Bagh, Fort  
Rd., Bangalore  
Mysore Horticultural Society,  
Lalbagh, Bangalore

**KARACHI**

Khoja Alloobhai Kassim, Near  
Boulton Market, Karachi

**PUNJAB.**

Brij Lal Orchards, Pathankote  
Indian Mildura Fruit Farms, Ltd.,  
Renala Khurd, Montgomery  
**Jamalpur Fruit Farm**, Near  
Pathankote, (Punjab), Rly Sta-  
tion, Sarna  
Malik Seed Stores, Gujrat  
Popular Nurseries & Fruit Farms  
Gujranwala

**SIKKIM**

Chandia Nursery, P O Rhenock,  
Sikkim  
L B Pradhan & Sons, P O  
Pakyong, Sikkim  
Nawranglall Lajpat Roy, Rhenock  
P O, Sikkim

R K Pradhan, P O Pakvong,  
Sikkim

**UNITED PROVINCES**

Acclimatised Seed Stores, "The  
Ranche," P O Dehra Dun  
American Seed Stores, Qandhari  
Bazar, Fyzabad  
Bertryl Seeds, Mussoorie  
Brookfield Seed Stores, "Brook-  
field," Dehra Dun  
Dehra Dun Seeds Stores, P O  
Dehra Dun  
Fyzabad Seed Company, (Regd.),  
Fyzabad (Cauliflower Seeds)  
Ghaziabad Nurseries, Grand  
Trunk Road, Opp Civil Courts,  
Ghaziabad, N W R  
Govt Botanical Garden, Shaharan-  
pur  
Himalaya Seeds Stores, Barlow  
ganj, Mussoorie  
Indian Seed Company, 30, Khul  
dabad, Allahabad  
L R Brothers, Saharanpur  
M Mohd Afaq, Rataul, Gotra  
R S, Meerut  
Novelty Seed Stores, Najibabad,

**OFFICE APPLIANCES DEALERS.**

Addison & Co, Ltd, Mount Road,  
Madras  
Binod & Co, 13, Dalhousie Sq  
East, Entrance Mission Row,  
Calcutta  
Esseo Ltd, P 34, Mission Row  
Extension, Calcutta  
Kishore Brothers Karnal & Delhi  
National Furniture Co, Peruma-  
nui, Ernakulam, Cochin  
Office Appliance Corporation,  
Hassan Chambers, Parsee Bazar  
Street, Fort, Bombay

Office Equipment Co, 2, Aime-  
nian St, Madras  
Sentinel Office Appliance Co,  
Bank of India Bldgs, Karachi  
& 315/311, Hornby Road, Fort,  
Bombay  
Standard Stores & Agency Co,  
35, Akhil Mistri Lane, Calcutta  
Tayabally Dawoodjee, 84, Bhaji-  
pala Lane, Bombay  
Rustomji Dinsbah Bilimoria, 57,  
Baibhai Mohalla, Bombay 3

**OIL MERCHANTS.****ASSAM**

Dalunam Bajnath & Co, Dibru-  
garh, Assam

**BENGAL**

P L Banerjee & Co Hd Office  
—43, Dharmadas Kundu Lane,  
Sibpur Howrah City Office  
6, Tottee Lane, Calcutta

Pran Kumar Mahajan, Chaktai,  
Chittagong (Mustard Oil)  
Protap Chandia Saha, Khagria,  
Baichitolla, Murshidabad

**BOMBAY**

Abdealy Mahomedaly Rangwala,  
148, Naxdevi Street, Bombay  
Alibhoy Valji, Kadiya Moholla,  
Null Bazar, Bombay.

The Sphere of Tea: An exposition of the Cultivation, Manufacture and  
Trade of Tea in India Rs 3. Industry Book Dept, Shambazar, Calcutta.

Bombay Oil Supplying Co., 12, Muza Ali St., Imamwada, Katha Bazar, Bombay.  
 Dhurajlal Gulabdas & Co., 340, Katha Bazar, Bombay  
 Gulamali Dawoodbhoy & Co., 23, Mangaldas Road, Princess St., Bombay

#### BOMBAY PRESIDENCY.

Shah Bros., Richey Road, Ahmedabad.  
 Shah Gandabhoy Gopalji, Bili-mora, Surat  
 Shah Kesharichand Bhanbhoy, Bili-mora, Surat

#### CALCUTTA.

Adam Hajee Peermohamed Essack, 1, Amratolla Lane, Cal (Coconut oil)  
 Annada Piasad Malik & Anath Bandhu Samanta, 2, Buitolla St., Calcutta (Mohua Oil)  
 Benimadhab Tah & Sons, 38, Maharshi Debendra Road, Cal  
 D M Lockat, 156-4, Lower Chit-pore Road, Calcutta  
 Diwan Haji Peermohamed Musa, 4, Amratolla St., Cal  
 Hajee Habib, Hajee Pir Mohamed & Co., 25, Amratalla Street, Calcutta (Coconut Oil)  
 Hajee Sukun Hajee Gani, 10, Amratolla Lane, Calcutta  
 Hossein Kasam Dada, 25, Amratalla St., Calcutta  
 Khimjee Hansraj, 165, Lower Chitpuri Rd., Calcutta  
 Md Hajee Gani, 11, Amratolla Lane, Calcutta  
 Mohammed Ebrahim Mohamed Jaffar, 16, Amratolla Lane, Cal  
 Panchkari Tat & Sons Ltd., 6, Meerbohar Ghat St., Cal  
 Ramdas Mahadeo Parsad, 39, Cotton St., Calcutta  
 Saleh Mohamed Haji Kassam, 23, Amratolla Lane, Calcutta  
 Shakur Han Gani, 10, Amratalla Lane, Calcutta (Vegetable Oil)  
 Shital Chandra Pal, 5 Nawab Lane, Calcutta (Neem Oil)

#### CENTRAL PROVINCES.

R N Waghmare, Hinganghat

Seth Haji Latiff Haji Dawood, Raipur

#### DELHI.

Kidainath Sharma, Near Fruit & Vegetable Market, Houz Kazi, Delhi

#### INDIAN STATES.

Adam Hajee Peermohamed Essack, Cochin  
 Bhavandas Mohanlal, Cochin  
 Hajee Essa Hajee Moosa, Cochin.  
 Tulsidas Hansraj, Cochin

#### KARACHI.

Dharamdas Chuhaidas & Co., Jodia Bazar, Karachi (Coconut Oil)

#### MADRAS PRESIDENCY.

A K M Ramasamy Chettiar, Ramnad Rd., Madura  
 D Ramaswami & Co., Guntur, (Groundnut Oil)  
 Dasari Ennah Co., Ellore (Tannin & Pungam Oil)  
 K S Siva Rao, Mungonda, Ambappeta Post, S India  
 M Narayana Rao & Manepalli Prasadaraao, Ellore W Godavary (Gingelly Oil, etc)  
 Nallam Subrahmanyam & Chunduru Subbarao, Ellore, W Godavari (Tannin & Pungam Oil)  
 P V Ramaiah & Bros Big Bazar, Palghat, Malabar (Oil Mundy)  
 P Srinivas Jettulal Singi, Bellary (Groundnut Oil)  
 S S Palanisamy Nadai, Aruppukottai, Ramnad  
 S Veeraswamy Chetty & Sons, Kalahasti, (Groundnut Oil)  
 Surampally Venkateswarulu, Tuni Godavari (Gingelly Oil)  
 Thulasi Das Dangajee Sait, Perundurai Rd., Erode

#### ORISSA.

J Mohapatra, P O Chauhaganj, Cuttack.

#### PUNJAB.

Seth Tulsiam Kidainath, Mundke  
 Universal Company Ltd., Railway Road, Kasur

Methods of Imports and Exports are discussed in full in **TRADER'S MANUAL**. Re 1/4. Industry Book Dept., Shambazar, Calcutta.

**UNITED PROVINCES**

Gudhai Das Gopal Das, Ghazipur  
 Gulab Ram Dhoia Ram, Golla  
 Ghat, Ghazipur  
 Kesho Rai Ram Prasad, Ghazipur

Makhanlal Chamsukhdas, Kanauj  
 Northern India Oil Industries Ltd  
 Rajpurwa, Cawnpore  
 Ram Lal & Sons, Najabad  
 Ram Prakash, Moh Laxmiganj,  
 Kasganj

**OIL MILLS.****ASSAM**

Dasuram Mizamull Oil Mills,  
 Gauhati  
**Sree Ganesh Oil & Rice  
 Mills**, P O Tezpur, Assam  
 Bianch —188, Cross Street, Cal-  
 cutta

**BENGAL**

Atta's Pure Oil Mill, 20, Benares  
 Rd, Salkia, Howrah  
 Bhowani Pure Oil Mills, 139,  
 Benares Rd, Salkia, Howrah  
 Canal Oil Mills, Grand Trunk Rd,  
 Konnagar, Hooghly  
 Gopal Oil Mill, 75, Dosani Bagan  
 Lane, Salkea, Howrah  
 Haribhusan De Oil Mill, Alam-  
 gunj, Burdwan  
 Howrah Oil Mills, Ramkrishna-  
 puri, Howrah & 135, Foreshore  
 Rd, Howrah  
 Ramdayal De's Oil Mill, Alam-  
 gunj, Burdwan  
 Satvanarayan Oil Mill, 33,  
 Benares Road, Salkia, Howrah  
 Sham Lal Oil Mill, Panga, Sa-  
 larpur  
 Shree Ramkrishna Mills Ltd,  
 Dhanbad, E I Ry Hd Office —  
 57, Burtolla Street, Calcutta  
 Steemanta Oil Mill, Khagria, Mur-  
 shidabad  
 Suramall Fulchand Oil Mill,  
 Rajshahi

**BIHAR**

Abdul Huq Factory, Sasaram,  
 Shahabad  
 Annapurna Rice & Oil Mills,  
 Raxaul, Champaran  
 Arvan Oil, Flour & Rice Mills &  
 Foundry, Dinapur, Patna  
 Bhagwatireshad Agarwala Oil  
 Mill Pakur, Santhal Parg  
 Dhara Sagari Mal Oil Mill,  
 Sahebganj, Santhal Parg

Haji Ahmad Ali Factory, Sasa-  
 ram, Shahabad  
 Jamuna Flour & Oil Mills, P O  
 Kailhar, Dt Patna  
 Laxminarayan Oil Mill, Jharia  
 Mannur Flour & Oil Factory, Sa-  
 saram, Shahabad  
 Ramchandria Ram Ramchandria  
 Shaw Oil & Rice Mills, Gaya  
 Ramdayal De Viadchand Oil  
 Mill, Sahebganj, Santhal Parg  
 Sagam Rao Ramchandria Ram Oil  
 Mill, P O Daudnagar, Gaya  
 Shew Mills Co, Bhagalpur  
 Shree Bhagwati Mills & Foun-  
 dries, Khagaul Dt Patna  
 Shri Jagdish Mill Co P O Nauga-  
 chia, Dt Bhagalpur  
 Sree Durga Rice & Oil Mill,  
 Chakulia, B N Ry  
 Sree Kalvaneswar Mills, Sita-  
 rampur  
 Sree Mahabujee Rice & Oil Mills,  
 Daibhanga  
 Sree Mohan Pannalal Oil Mills,  
 Mozahidpur, Bhagalpur City  
 Sri Krishna Oil Mills, Kedarnath  
 Rd, Muzaffarpur (Til Oil)  
 Sri Krishna Rice & Oil Mills Ltd  
 Masaurhi, Patna  
 Sri Madhab Mills Ltd Patna  
 Sri Monohar Mills, Charitaban,  
 Buxar, Shahabad  
 Victoria Oil Mills, Bhagalpur

**BOMBAY CITY.**

Ahmed Mills, Two Tanks, Grant  
 Rd, Bombay 8  
 Central Oil Mill 79, Bohia Bazar  
 Street, Fort, Bombay  
 Dadabhor Oil Mill, 349, Duncan  
 Road, Bombay  
 Elephant Oil Mills Ltd, Ruston  
 Bldg Church Gate St Bombay  
 Jannadas Laljee Oil Mills, Cham-  
 pi Bhimji Wadi Old Anjirwadi  
 Mazgaon Bombay

For constructional details of Radio Sets and reception read "Radio  
 Reception in Theory & Practice." Rs 2/8. Industry Book Dept, Cal.

New Mahalaxmi Oil Mills Co.,  
Lamington Road North, Near,  
Lalchimni, Jacob Circle, Bom-  
bay  
Swastik Oil Mills Ltd, Post Box  
No 362, Bombay Factory —  
Wadala, Bombay  
Tata Oil Mills Co. Ltd,  
Bombay House, 24, Bruce Street,  
Fort, Bombay (Tele 'Tatools')

**BOMBAY PRESIDENCY.**

Ambika Vijaya Oil Mill, Haripura,  
Kaljug, Mohola, Surat  
D C Gabba & Sons, Goharbag,  
Bilimora, Surat  
Fakirbhai Karsondas, Modhesh-  
war Mill, Bilimora, Surat  
Gujarat Oil Mill & Mfg Co, Ltd,  
Asaiya, P O Railwayapura, Ah-  
medabad  
J H Madan & Co, Dhastipura,  
Near Rafibura, Surat  
Manik Oil Mills, Manikpura Bldg,  
Sholapur  
Manikbag Oil Mills Ltd, Bel-  
gaum (Also Soap)  
New Laxmi Oil & Chemical  
Works Ltd, Deol, Panchmahal  
Sabarmati Railway Oil Mills,  
Sabarmati, Ahmedabad  
Shah Bros, Richey Rd, Ahmeda-  
bad  
Unjha Oil Mills Co Unjha, (N  
Gujarat)  
Vijaya Oil Mill, Near Station  
Rd, Ahmednagar

**CALCUTTA.**

Agni-hotia Oil Mill, 37-1, Canal  
West Rd, Calcutta  
Amar Oil Mills 74-A Belgachia  
Road, Calcutta  
Ashutosh Oil Mill, 242, Upper  
Circular Rd, Calcutta  
Banshidhar Barinath Oil Mills,  
32-4, Sahitya Parishad St, Cal  
Bejoy Oil Mill 16E, Fern Road,  
Ballygunge, Cal  
Bhadra Kali Oil Mill, 67-39,  
Strand Rd Calcutta  
Bhagat Oil Mills 32-4, Sahitya  
Parishad St Calcutta  
Bharat Oil Mill, 242, Upper Cir-  
cular Rd, Cal  
Bhuban Mohon Oil Mills Ltd,  
27 Oinhangunge Rd, Cal

Biswanath Oil Mill, 243, Upper  
Circular Rd, Calcutta  
Ganesh Oil Mills, 45, Ultadanga  
Rd, Calcutta  
Gopal Oil Mill, 113, Raja Dinendia  
St, Calcutta  
Lakshmi Oil Mills, 242-1, Upper  
Circular Rd, Cal  
Mohin & Company, 44, Beadon  
Row, Cal.  
Radha Oil Mill, 3, Parashar Rd  
Calcutta  
Saibamangala Oil Mill, 1, Halsi  
Bagan Rd, Calcutta  
Shree Shew Sakti Oil Mill, 153,  
Upper Circular Rd, Cal  
Sree Krishna Oil Mills Ltd 119,  
Raja Dinendia St, Calcutta  
Sri Hanuman Oil Mill, 6, Canal  
East Rd, Cal (Also Dal Mill)  
Sunajmull Kedarnath Oil Mills,  
153, Upper Circular Rd, Cal

**CENTRAL PROVINCES.**

Akbar Manufacturing & Press Co.,  
Ltd, Rly Station, Burhanpur  
Mohamed Oil Mills, Raipur  
Mushm Oil, Dal & Rice Mills, Rai-  
pur  
Saraf Oil Mills Co, Ltd, Itarsi  
Wara Oil Mills, Station Road,  
Wara

**DELHI**

Jindal Oil Mills, Shahdara, Delhi

**INDIAN STATES**

Abdul Hussain Abdul Kadar &  
Co, Oil Mills, Palluruthy,  
Cochin  
Baroda Oil Mills, Goya Gate,  
Baroda  
Bramhappa Tavanappanavar Oil  
Mills, Mysore  
D Javaveerappa, M/Agents --  
The Chitalding Oil Industrial  
Co Ltd, Chitalding, Mysore  
State  
Dhannalal Rankanwar, Chowgan,  
Kotah  
Hyderabad Oil & Paint Co 83/3  
Public Garden Road Hyderabad  
(Deccan)  
Indian Cotton Oil Mills, Navsari

K. Naganna Setty Appajappa Oil Mills, Bangalore City  
Kalpaka Oil Mills Ltd, Pallurutti, Cochin

Kottayam Oil Mills Ltd, Kottayam, Travancore

Mahalaxmi Oil Mills, Davangere, Chitaldrug

Mangalore Oil Mills, Ltd, Cochin  
N C Chacko Oil Mill, Alleppey, Travancore

Natwarshinhi Oil Mills, Poibandar

Padmanabiah's Oil Mill, Tumkur, Mysore

Shivaji Soapnut & Oil Mills, Chamarajpet, Bangalore City

Sri Ramkrishna Oil Mills, Bangalore City

St Anthony's Oil Mill, Kuthiathodu, Travancore, Travancore

Vithal Oil Mills, Goya Gate, Baroda

#### KARACHI

Bharat Oil Co, Garden Road, Karachi

Ganesh Copra Mill Co, Bunder Rd, Karachi

#### LAHORE.

Kuldip Oil Mills, Lahore

#### MADRAS PRESIDENCY

Badam Subbarao's Oil Press, Cocanada, Godavary

Boddu Pydauna Sons, Vizianagram City

Guntakal Oil Mill & Deet Factory, Trumenchula, Guntakal

Jamal Mills, Amdalvalsa, Vizagapatam

Krishna Oil Mills, Negapatam, Tanjore

Lakshminarayana Oil & Rice Mills, Tilaru R S, Vizagapatam

Malabar Rice & Oil Mills, West Hill, Malabar

Puvvada Satyanarayana Oil Mills Vizianagram City

Ramdas Haridas Rice & Oil Mill, West Hill, Calicut, Malabar

Ravi Electric Gingelly Oil Mills, Goldsmith St, Bellary

Repaka Seethaamaswamy, Pondun, Vizagapatam

Sri Krishna Oil Mills Co, Mangalore S K (Cocanut Oil)

Established 1919

Phone, No 2829

# Radha Krishna Sita Ram Oil Factory,

COOPERGANJ, CAWNPORE.

*Specialists in Refined and Superior Quality*

## CASTOR OIL

OF

High Grade & Lowest Acid Value

FOR

Lubrication and other Industrial Purposes

IT IS ECONOMICAL IN USE AND  
GIVES A LONG LIFE TO MACHINES

*TRIAL SOLICITED.*



**Sree Krishna Oil Mills,**  
Negapatam. Prop. R. Thanda-  
pani Chettiar. Authorised pack-  
er of "Agmark" Edible Til Oil  
by the Agricultural Marketing  
Adviser to the Government of  
India, Delhi

#### ORISSA.

Hindusthan Oil Mills, Chaulha-  
gunj, Cuttack

#### PUNJAB.

Amritsar New Steam Roller Flour  
& Oil Mills, Amritsar  
Guru Aijan Dass Oil Mills, Sai-  
godha  
Guru Nanak Oil Mills, Saigodha  
Krishna Oil Mills, Ludhiana  
Punjab Rice & Oil Mills, Mundke

#### UNITED PROVINCES.

Bharat Industrial Oil Mills, 39,  
La Touche Rd., Lucknow

Cawnpore Oil Mills, Coopeergunge.  
Cawnpore

Ganga Oil Mills & Ginning Fac-  
tory, Coopeerganj, Cawnpore

Govind Oil Mills, Rajpura.  
Cawnpore.

Jugglal Kamlapat Oil Mills, Coo-  
peerganj, Cawnpore

Madhavi Oil Mills, Ungha

Northern India Oil Industries  
Ltd., Cawnpore

Prasad Oil Mills, Kasganj

Radhakrishna Sitaram Oil Fac-  
tory, Coopeerganj, Cawnpore

Rajendra Prasad Oil Mills, Juh,  
Cawnpore

Sri Govind Oil Mills, P B 103.  
Bansmandi, Cawnpore

Tikaram Mulchand Oil Mills &  
Ginning Factory, Hathras City

### OIL CAKE DEALERS.

Balchand Kusturichand, Amalner  
E Khandesh

Central Supply Agency, 2, Church  
Lane, Calcutta

Dalram Baijnath & Co, Dibru-  
garh, Assam

Dwaikadas Vallabdas Gandhi.  
Cochin

Gangaram Dhondiba, Kinggalli,  
Ahmednagar

H M Shah & Co, Snehalata-  
ganja, Indore City, (C I) B  
1, New Road, Ujjain & Malhar-  
ganja, Indore City

Hajee Essa Hajee Moosa, Cochin  
State

Jaganath, Baijnath Oil Mill, Co-  
opeerganj, Cawnpore

Jalu Ram Gobinda Ram, Jogbani,  
Punea

Keerachand Madhavjee & Co.  
Cochin

Khaitan Sons & Co, 1 Commer-  
cial Buildings, Clive Street, Cal

Khona B J, Cochin

Narayana Vajappa Bhandari,  
Cochin

New Laxmi Oil & Chemical Wks,  
Ltd., Hansaraj Lane, Byculka,  
Bombay

Penugonda Malliah & Co, Guntur

Praleylal Murailal, P O Nawab-  
ganj, Cawnpore

Rangappa Baliga & Co, Cochin

Seth Govindaram Jaigopal Das,  
114, Mint Street, Sowcarpet,  
Madras

### OIL CLOTH MANUFACTURERS.

Bengal Waterproof Works Ltd.  
Panihati, 24-Paisa

Mimi & Co, 144, Dharamtola St.,

Calcutta

Standard Oil-Cloth Company,  
Purana Paltan, Ramna Dacca

### OIL & GAS ENGINES DEALERS.

Balmer Lawrie & Co. Ltd., 103,  
Clive Street, Calcutta

Belliss & Morcom Ltd., A-3, Clive  
Bldgs, Clive Street, Calcutta

Calcutta Engineering Stores Co.,  
9 Clive Row, Calcutta

E A Latif & Son, Latif Building,  
Revdi Bazar, Ahmedabad

Manufacture of Tobacco Snuff, Zarda, etc., Read, INDIAN TOBACCO &  
ITS PREPARATIONS. Rs. 2/8. Industry Book Dept., Calcutta.

Greaves Cotton & Co, Ltd, 1, Forbes Street, Bombay.  
 Heatly & Giesham Ltd, 6, Mission Row Extension, Calcutta  
 Jessop & Co, Ltd, 93, Clive St, Calcutta  
 John Fleming & Co, Ltd, 21, Bastian Rd, Bombay.  
 M H Dinshaw & Co, 105, Apollo St, Bombay  
 M S Vernal & Co, Bharat Insurance Bldg, Central Ave, (South), Post Box 2320, Calcutta  
 Marshall Sons & Co (India) Ltd 99, Clive St, Calcutta

Masseys (1930) Ltd, Main Road, Royapuram, Madras  
 Mirrlees Watson Co, Ltd, Grosvenor House, 21, Old Court House St, Calcutta  
 Nazi Engineering Works, Del Mohd Road, Lahore  
 Richardson & Cruddas, Byculla, Bombay  
 Swiss Locomotive & Machine Works, Post Box No 690, Bombay  
 Worthington-Simpson Ltd 10, Clive Street, Calcutta

## OIL & LUBRICANT MANUFACTURERS & DEALERS.

(Also see Kerosene Oil Dealers).

### AJMER-MERWARA

Gulam Ali Tyeb Ali, Aaya Bazar, Ajmer

### ASSAM

Assam Oil Co, Ltd, Digboi, Lakhimpur  
 Budderpore Oil Co, Ltd, Badarpur Ghat, Cachar

### BENGAL.

Balchand Tejmall, Siliguri  
 P L Banerjee & Co, Hd Office —43, Dharmadas Kundu Lane, Sibpur, Howrah City Office —6, Tottee Lane, Calcutta  
 Upendia Nath Ghose, Rajpur, Sonapur, 24-Pargas

### BOMBAY CITY

Anglo-Indian Oil Co (India) Ltd, Shaw Wallace & Co's Bldg, 3, Wittet Rd, Ballard Estate, Bombay  
 Bombay Oil Supplying Co, 12, Mirzali Street, Eimamwada Rd, Bombay 9  
 ✓British Burma Petroleum Co, 11, Bank St, Bombay  
 C R Contractor & Co, Nagdevi Cross Lane, Bombay  
 Esufally Adamji & Co, 134, Nagdevi St, Bombay  
 International Oil Co, Ltd 17, Ravelin Street, Fort, Bombay  
 Motor & General Stores Supplying Co, Kothari Mansion, P. O Box No 492, Fort, Bombay 1

Western India Oil Distributing Co, Ltd, Alice Building, Hornby Road, Fort, Bombay, B — Madras, Calcutta, Karachi

### BOMBAY PRESIDENCY

Gafi & Co, Opp Railway Station, Ahmedabad 2 (Texaco's)  
 Merit Oil & Trading Co, 2168, Reid Rd, Ahmedabad

### CALCUTTA.

Ace Oil Company, Windsor House, Mission Row Extn, Calcutta.  
 Anglo-Iranian Oil Co (India) Ltd, Hongkong House, Calcutta  
 Bengal Burma Trading Co, 5-2B, Raja Raj Ballar St, Cal  
 Burmah-Shell Oil Storage & Distributing Co of India Ltd, Hongkong House, Dalhousie Sq Cal Br —Bombay, Madras, Karachi, Lahore & New Delhi  
 C C Wakefield & Co, Ltd, 7, Royal Exchange Place, Cal (Also Bombay, Delhi Karachi, Lahore, Madras)  
 Caltex Company (India), Ltd, United India Insce Bldgs, Central Avenue, Calcutta Br. — Madras, Karachi, Bombay & Colombo (Also Asphaltum)  
 Central Supply Agency, 2, Church Lane, Calcutta  
 Don Watson & Co, Ltd 19, British Indian St, Calcutta

Manufacture of Tobacco, Snuff, Zarda etc, Read, INDIAN TOBACCO & ITS PREPARATIONS Rs 2/8 Industry Book Dept, Calcutta

Ganeshdas Ram Gopal, 1, Chittaranjan Avenue, Calcutta  
Indo-Pennsylvania Oil Co., 18, Mangoe Lane, Calcutta  
Roberts McLean & Co., Ltd, 101, Clive St, Calcutta  
Scroggie Bros, 2, Clive Ghat St, Calcutta  
Standard Vacuum Oil Co., 6, Church Lane, Calcutta (Also Bombay, Karachi, Madras, Delhi, Rangoon)  
Tide Water Oil Co (India), Ltd., 8, Clive Row, Calcutta Branch—Bombay, Madras, Karachi & Rangoon  
Valvoline Oil Co., 2, Clive Row, Calcutta Branch—Bombay, Madras, Rangoon  
Victor Oil Co, Ltd, 11, Clive St, Calcutta

#### DELHI.

C Didwania, Kashmeegate, Delhi

#### INDIAN STATES

Ghulamali Tayabali, Neemuch, Gwalior  
Hemraj Kanji Bazar, Morvi, Kathiawar  
Kasturchand Kishan Sarup, Katia Nauhanian, Patiala  
Madan Mohan Jain & Sons, Jivankuti, Ujjain  
Madho Prasad Sitaram, Bhadohi, Benares State

#### KARACHI.

Mills Store Co., Napier Road, Karachi  
Shah Baghwanlal Ranchordas, Napier Rd, Karachi

#### MADRAS CITY.

J Balagurunath Chetty & Co, 32, Govindappa Naick Street, Madras

#### MADRAS PRESIDENCY.

A S Manickiam & Co, Tanjore  
Asiatic Petroleum Co, Cocanada  
B Sitaramiah & Sons, Ellore, Godavary  
Burma Oil Co, Cocanada, Godavary.  
P S Srinivasa Iyengar, Great Cotton Rd, Tuticorin  
R Adiseshaiah Sons, Chuala, M & S M Ry  
R Thandapani Chettiar, Negapatam  
Vizianagram Mining Co, Ltd, Chipmupalle, Vizagapatam

#### ORISSA.

Doongarsidas Mulldhai & Sons, Buxi Bazar, Cuttack (Petrol)

#### PUNJAB.

Attock Oil Co, Ltd, Rawalpindi

#### RAJPUTANA

Industrial Engineering & Radio Company, Sirohi, (Rajputana)  
Ramchander Balabakhsh, Agts  
Burmah-Shell Oil Storage Co, Ltd, Sambhal Lake

#### UNITED PROVINCES

B Dai & Co, Civil Lines, Cawnpore  
Ram Narain Chela Ram, Sadar Bazar, Meerut  
U P Mineral Oil Co. Parade, Cawnpore  
United Oil Co (India), Ltd, 15, Civil Lines, Cawnpore

#### OIL MILLING MACHINERY DEALERS.

Ahmed Essa & Co, 12, Mirza Ali St, Imamwada, Bombay  
Bhartiya Engineering Works, 370, Upper Chitpuri Road, Calcutta (Telephone —B B 4945, Telegram —"Chamfered" Calcutta)  
H O —Shahibganj, Bihar  
Dinshaw Iron Works, Grant Rd, Corner, Bombay

#### OILMAN'S STORES DEALERS.

##### BENGAL.

Bombay Stores, 611, Adamjee Labour Line, Belur, (Howrah).  
Cash Company, Rangpuri

Mojumder Brothers, Mymensingh.  
R M Das & Co, 119, Hrishikesi Das Rd, Dacca

**COMMON FAULTS & ERRORS:** A guide to writers and speakers in English. As. 5. Industry Book Dept., Shambazar, Calcutta.

**BIHAR**

R P G Vidyarthi, Eshwarai Mansion, Beapuri, (Patna)

**BOMBAY CITY**

Chimanlal Chotalal & Co, Vadgadi, Samuel St, Bombay 3

Hirubhai Maneckji & Co, 9, Mangalore St, Fieie Road, Fort, Bombay

Yazdani & Co, Crawford Market, Hornby Rd, Bombay

**BOMBAY PRESIDENCY**

N Sorabji & Co, Arsenal Road, Poona Camp

**CALCUTTA**

Baborally Sudai, 45, Hogg Market, (New Bldg, N), Cal

G F Kellner & Co, Ltd, 32, Chowringhee, Cal

George Brothers 9 & 10, Entally Market, Calcutta

Gave & Take Stores, 7A, Lindsay Street, Calcutta (Phone 4063 Cal)

Goodwill & Co, P4-35, Beiram St, Calcutta

H M Sirajuddin & Co, 7, Municipal Market, Calcutta

Hajee Ahmed, G-24, & 25, Sir Stuart Hogg Market, Calcutta

Haji Md Akbar & Son, C 74, New Market, Cal

Hargovindas Tribhovandas, 55, Ezra St, Cal

Mukherjee & Co, E86 2, College St Market, Calcutta

**CENTRAL INDIA**

Amerjee & Son, near Police Station, Mhow

Rustomjee & Co, Montieth Road, Camp, Mhow

**CENTRAL PROVINCES**

Dinkai Timbak & Co, Akola, Beiar

M M Patel & Co, Akola, Beiar, Nagpur Supply Agency Ltd, P O Sitabaldi, Nagpur

**INDIAN STATES**

C M & Sons, 32, Devaraja Market, Sayyaji Rao Rd, Mysore

**KARACHI**

Fieie & Co, Bunder Road, Karachi

K. J Panachand & Co, Bunder Rd, Karachi

T Motandas & Co, Bunder Road, Post Box 25, Karachi

Victory Stores, Hospital Road, Karachi

**LAHORE**

F J King & Co, Railway Road, Lahore

**MADRAS PRESIDENCY**

Andavar Stores, Fort, Coimbatore

C Venkataswami & Sons, Main Rd, Vizagapatam

**PUNJAB**

Hampshire Piggery, Kasauli, Ambala

Oriental Oats Co, Muadpuri, Sialkot City (Oat Food)

**UNITED PROVINCES**

Abdul Karim & Sons, Neston Rd, Cawnpore

G G Fruit Preserving Factory, Belanganj, Agia B — Delhi, Cawnpore & Bareilly

Macwall & Co, Ltd, Mall Road, Cawnpore

**OPTICIANS.****BENGAL**

Diamond Optical Hall, Barabazar, Midnapore

K Chuckerabutty, M I D A, 24, Ram K Ganguly Lane, Shibpur, Howrah

Standard Optical Co, Station Rd, Bhadreswar P O, Hooghly

**BIHAR**

Basmall & Co (India), Ltd, White House, Castan's Town,

P O Baidyanath (Deoghar), S P Chandra Optical House, Bhagalpur City

English Optical Co, 36, Puriulla Rd, Jamshedpur

Honesty Optical Co, Station Rd, Pandharpur, B L Ry

**COMMON FAULTS & ERRORS** A guide to writers and speakers in English. As 5. Industry Book Dept., Shambazar, Calcutta.

**BOMBAY CITY**

Baliwalla & Homi Ltd, 365,  
Hornby Rd, Fort, Bombay  
Eastern Optical Co, 323-325, Ab-  
dul Rehman St, Bombay  
Esmail Suleman & Sons, 342,  
Abdul Rehman St, Bombay.  
Mansukhlal & Co, 356, Kalbadevi  
Rd, Bombay 2  
New India Optical Co, 347, Kalba-  
devi Rd, Bombay 2  
Universal Optical Co, 340, Kalba  
devi Rd, Bombay

**BOMBAY PRESIDENCY.**

C Govind & Co, Gandhi Road,  
Ahmedabad  
Chandrikant Premchand & Co,  
Three Gates, Ahmedabad  
Gheewala Optical House, Lmda  
Chawk, Surat  
Pandya Optical Works, Kanpith,  
Lal Gate, Surat  
Standard Optical Co, Budhwar-  
peth, (near Post Office), Poona  
Surat Optical Mart, Kanpith,  
Surat.

**CALCUTTA.**

Bengal Optical Mart, 148, Rash-  
behary Avenue, Cal  
Bosco, 113-A, Lower Circular  
Rd, Calcutta  
Calcutta Optical Co, 45, Amherst  
St, Cal  
Calcutta Optics Mfg Syndicate,  
265, Bowbazar St, Cal  
Central Optical Co, 19A, Bow-  
bazar St, Cal  
City Opticians, 15-9, Chowringhee  
Road, Grand Hotel Arcade, Cal  
Dr Ashby's Eye Clinic, 14, College  
Street, Calcutta  
Eastern Optical Co (Regd), 306,  
Bow Bazar Street, Calcutta  
Eye-Site, 24, Lindsay Street,  
Calcutta (Phone Cal 3348)  
James Murray & Co, Ltd, 5, Old  
Court House Street, Calcutta  
K Edulji & Sons, 5, Dharamtala  
Street, Calcutta

Lakhi & Sons, 9, Wellington St,  
Calcutta.  
Lawrence & Mayo (India), Ltd,  
11, Govt Place East, Cal Br  
Madras, Bombay  
Lyon & Lyon Ltd, 2, Wellesley  
Place, Calcutta  
Medical Optic House, 216, Corn-  
wallis Street, Calcutta  
Modern Optical Stores, 3, Bow  
bazar St, Calcutta  
National Optical Co, 14, Bowbazar  
St, Calcutta  
New Indian Optical Co, 275 3,  
Bowbazar Street, Calcutta  
Opticovne, 42, Dharamtala St,  
Calcutta  
Optics Manufacturing House, 309,  
Bowbazar St, Near Lal Bazar,  
Calcutta  
Optik Haus, 11, Esplanade East,  
Calcutta  
P C Banerjee & Sons, 5, Chit-  
ranjan Avenue, South, Calcutta.  
P N Smith & Co, 34-1, College  
St, Calcutta (Also Dentists)  
**Popular Pharmacy Ltd, 167,**  
Russa Road, Calcutta  
Presidency Pharmacy, 205, Corn-  
wallis St, Calcutta  
R C Ghose & Sons, 285-4, Bow  
Bazar St, Calcutta  
Ray, Mitra & Co, 23, Strand.  
Road, Calcutta  
Rodda & Co, 275-2, Bowbazar St.,  
Calcutta  
S N Seal & Co, 215, Cornwallis  
St, Cal (Ophthalmic Opticians)  
Sight Hous, 134-2, Cornwallis St  
Calcutta  
Stephens & Co, Ltd, 23, Chow-  
ringhee Rd, Calcutta  
Sun Optical Co, 24-1, Cornwallis  
Street, Calcutta  
Walter Bushnell Ltd, 21, Old  
Court House St, Calcutta, 2,  
The Mall, Simla

**CENTRAL PROVINCES**

Ahmedali & Tayebali, Omtl  
Bridge, Jubbulpore

**OPHTHAL OPTICIANS**

**THE POPULAR PHARMACY LTD.,**

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(Gram "PHARMACY")

167, Russa Road, Bhowanipur, Calcutta

Sight Testing Ophthalmic Optician—Dealers in Ophthal Goods.

Bajjal & Co. Loidgunj, Jubbul-  
pore  
Kohinoor General Agency, Resi-  
dency Road, Nagpur  
Shivraj & Sons, Opp Mayo Hos-  
pital, Nagpur

**DELHI**

Delhi Optical Co. Fort Road,  
Delhi  
Imperial Optical Co, Near Lloyds  
Bank, Delhi  
Modern Optical Co, Chandni  
Chowk, Fort End Delhi  
Punjab Spectacles Co, Chandni  
Chowk, Delhi

**INDIAN STATES**

B P Nanjundappa, Bowringpet,  
Kolar, Mysore  
Fazleah Abdeah & Bros, Mukalan  
Bazar, Shajapur, Gwalior State  
H B Khan & Co. Rajkot Pura,  
Kathiawar  
Jodhpur Optical House, 3, Ralla  
Ram Building, Jodhpur  
Malla Lachanna & Sons, Bazar  
Street, Pailakimed, Dt Ganjam  
S N Rama Rao & Sons, Fort,  
Bangalore  
Vedi & Sons, Stn Road, Jodh-  
pur Factory —Itarsi

**KARACHI**

Bombay Spectacles Co, Muadhkan  
Road, Karachi  
Dental & Optical Hall, Bombay  
Bazar, Karachi  
Kataria Optical Co, Elphinstone  
St, Saddai, Karachi  
Standard Optical Co, Elphinstone  
Street, Karachi

**LAHORE**

Crown Optical Co, 300, Bazar  
Sadakaran, Lahore  
Indian Optical Industries Ltd,  
Canal Bank, Ichhia, Lahore  
Paikash Brothers, 9, Beadon Rd.,  
Lahore

**MADRAS CITY**

M A Chari & Co, 9, Broadway,  
Madras  
M Pathe & Co, 135, Mount Road,  
Madras  
Norton & Co, 2 & 4, South Beach  
Road, Madras

**MADRAS PRESIDENCY**

G T Sarma & Co, Vizagapatam  
Luxmi Optical & Photo House,  
Brodipet, Guntur  
N S Chakravarthy, 4, Apparaio  
Street, Madanapalli  
P Subramiah & Co, Veianki  
Lock, Kistna  
Sunny & Co, Vizagapatam  
Y Rama Rao & Sons, Brito Bldg.,  
Hampankatta, Mangalore, S K.

**PUNJAB**

A N Jonjira & Sons, Chowk  
Bazar, Multan  
Aya Singh & Sons, Hall Bazar,  
Amritsar  
Hari Singh & Sons, Hall Bazar,  
Amritsar  
London Optical House, Wheat  
Market, Ferozepore  
Phool Chand & Co, Mall Road,  
Simla

**UNITED PROVINCES**

B N Bajjal, Meston Road,  
Kaiserbagh Circus, Lucknow  
Benares Optical Co, Chowk,  
Benares City  
Kailash Narain Punjal, Railway  
Road, Farrukhabad  
Lucknow Optical Co, Kaiserbagh,  
Lucknow  
Mohd Hanif, Meston Road,  
Cawnpore  
Sarfiar Hussain & Baqar Hussain,  
Aminuddaula Park, Lucknow  
Union Optical Works, Moradabad.  
Verma Bros, Drummond Road,  
Agra  
Vimla Ranj & Co, Nishat Bldg.,  
Godhowlia, Benares City

**ORTHOPAEDIC STORES DEALERS.**

Deformity Appliances & Hospital  
Stores, 3, College Square East,  
Calcutta

H Mukherjee & Co, 39 1, College  
Street, Calcutta

K Chapmon & Co, Sandhurst  
Road, Bombay 4  
N Powell & Co, Ltd, Lamington  
Road, Bombay  
Orthopaedic Appliances Stores,  
113, Chittaranjan Avenue, Cal

**DISINFECTANTS & ANTISEPTICS** gives full details of preparing all  
sorts of insecticides & medicated cottons Re 1/12 Industry, Calcutta.

# **OXYGEN & ACETYLENE GAS DISTRIBUTORS.**

Alfred Herbert (India), Ltd,  
13-1, Strand Road, Calcutta

**Indian Oxygen & Acetylene  
Co., Ltd.,** 48, Diamond Har-  
bour Road, Calcutta

K Chapman & Co, Opp Marwadi  
Vidyalaya, Sandhurst Rd, Bom-  
bay (Oxygen Gas Service).  
Soorajmull Nagarmull, 61, Harri-  
son Road, Calcutta Factory —  
Ghusury, Shibpoie, Shetabgunj  
& Gopalpur

## **PACKING MATERIALS.**

Assam Bengal Caseboard Co, Ltd,  
12, British Indian St, Calcutta.  
Behaghatta Box & Timber Co, 8,  
Chaulpatty, Behaghatta, Cal  
Behaghatta Packing Box Mfg  
Co, 28-B, Chaulpatty Rd, Cal  
East India Industries (Madras)  
Ltd, 498, Mint Street, R T,  
Madras  
Gubun Akbarali & Co, Khoka-

wala, 108, Saiang Street, Bhu-  
sari Moholla, Bombay  
Ganga Wood Works, & Sawing  
Mills, Lahore Cantt  
India Box & Cotton Printing  
Works, Fiere Road, Karachi  
Kapur Furnishers, Gujrat, Pb  
Paper Products Co, Roberts Rd,  
Lahore Br-15, Chittaranjan  
Avenue, Calcutta

## **PADDY MERCHANTS.**

Amarchand Ganga Bishan, Bhat-  
nagar, Jogbani, Purnea  
Ashutosh Bhattacharjee, 69-1,  
Chetla Road, Calcutta  
Ashutosh Mondal, Kalinagar  
P O Sandesh Khali, 24-Paigs

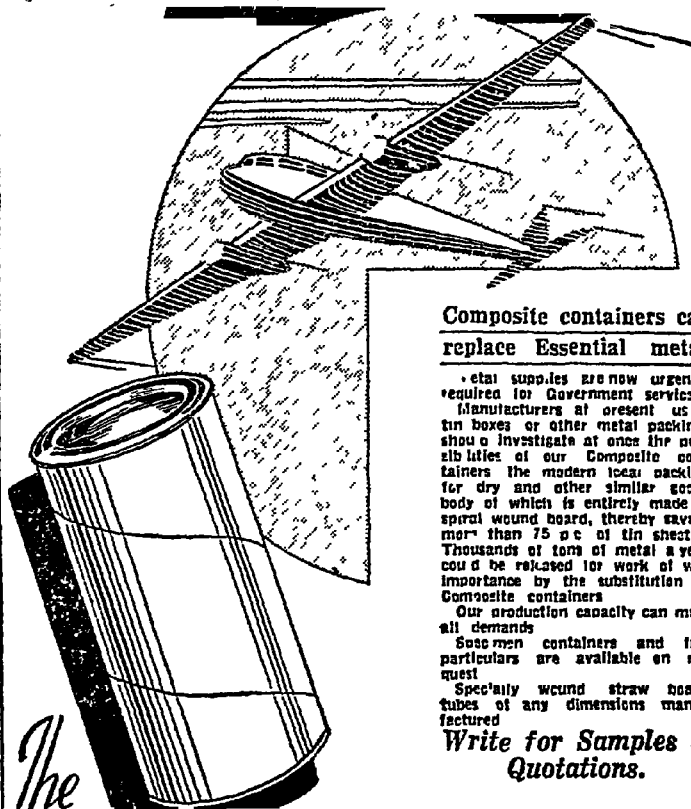
Atal Behari Bain, Metia Vill P O  
Dhanyakuria, 24-Pargs  
Badshah Mondal, Patuli, Rana-  
ghat, Nadia  
Baidhawan Fulchand, Motiganja  
Bazai, Balasore

FOR  
**OXYGEN**  
OF  
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& ACETYLENE Co., Ltd.**

*Manufacturers of*  
**OXYGEN & ACETYLENE.**

Managing Agents:—  
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**61, Harrison Road, CALCUTTA.**

# *Composite* CONTAINERS



## Composite containers can replace Essential metal

metal supplies are now urgently required for Government services. Manufacturers at present using tin boxes or other metal packings should investigate at once the possibilities of our Composite containers the modern loose packing for dry and other similar goods body of which is entirely made of spiral wound board, thereby saving more than 75 per cent of tin sheet. Thousands of tons of metal a year could be released for work of war importance by the substitution of Composite containers.

Our production capacity can meet all demands.

Sample containers and full particulars are available on request.

Specialty wound straw board tubes of any dimensions manufactured.

*Write for Samples &  
Quotations.*

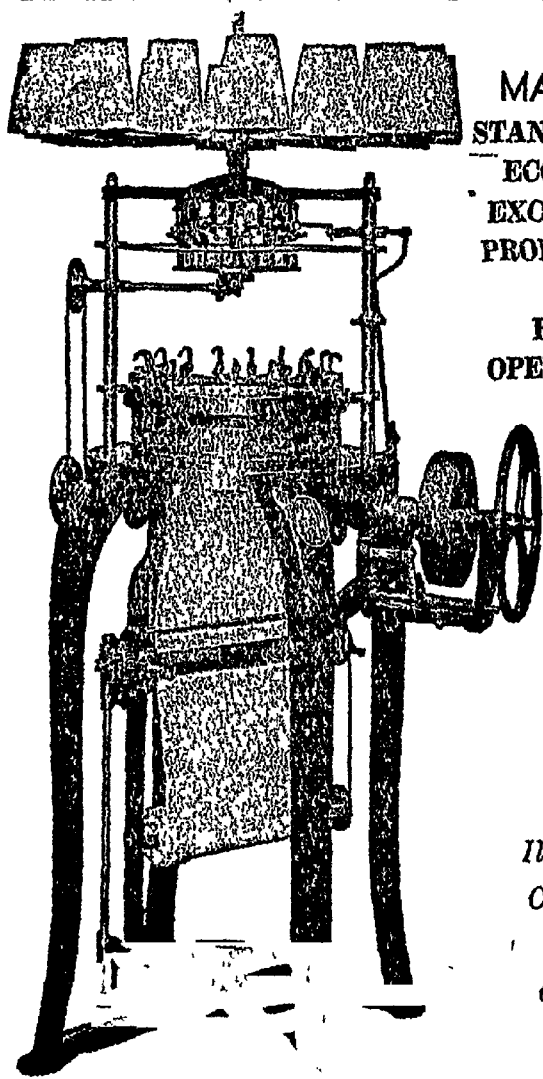
## PAPER PRODUCTS Co.

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INDIA'S  
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STAND FOR:—  
ECONOMY  
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EASY  
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demand.*

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NANDPUR, P. O. SANAHWAL, (LUDHIANA).

Bejoy Govinda Guha, Saktighar, Burdwan  
 Bejoy K Addy & Amulyadhan Addy, 74, Chetla Rd., Calcutta  
 Benode Behari Mondal, Hingalgunge, 24-Pargs  
 Bhupal Chandra Manna & Sons, 20-1-2, Chetla Road, Calcutta  
 Central Cooperative Paddy Sale Society Ltd., 10-2-D, Canal Circular Road, Daspara, Calcutta  
 Dasarathi Ganguli, 43, Chetla Rd., Calcutta  
 Debi Prosad Ghosh, Saktighar, Burdwan  
 Debnarayan Halder, Canal Circular Road, Daspara, Calcutta  
 Gaganchandra Das, Sidheswari, Baneswar, Cooch Behar  
 Gauri Sankar Samanta, Saktighar, Burdwan  
 Haimarayan Chatterjee, Boichi, Burdwan  
 Hossain & Kashim Dada, 19, Chetla Road, Calcutta  
 Indiachand Tolaram, Gauripur, Goalpara, Assam  
 Jagannath Inderchand, Paibati-puri, Dinajpur  
 Jogesh Chandra Kundu, Koukong, Dinajpur  
 K Gurunathan Seivai, East Veli Street, Madua  
 Kaitick Ch Ghose, Profulla Ch Ghose, Memari, Burdwan  
 Keshab Ch Samanta & Sons, 191, Chetla Road, Calcutta  
 Khagendra Nath Mondal, Metia Vill Dhanyakuria, 24-Pargs  
 Krishna Mohan Chakraverty & Co, Sonatikui, 24-Pargs  
 M M Ispahani, 108, Chetla Road Calcutta  
 Mahesh Ch Pal, Nibaran Ch Pal, 114, Canal Circular Rd., Daspara, Calcutta  
 Nagendra Nath Laha & Sons, 25, Chetla Road, Calcutta  
 Nandalal Chowdhury, Satya Chaman Pal, 116, Canal Circular Road, Daspara, Calcutta  
 Naran Chandra Pal, Krista Dass Sui, Memari, Burdwan

Nibaran Chandra Saikal, Iman Ali Biswas, 11-65, Canal Circular Road, Daspara, Cal  
 Nikunja Behari Mondal, Metia Vill, Dhanyakuria, 24-Pargs  
 P V Karuppananambalam, East Veli Street, Madua  
 Panchanan Bakshi, Bimal Kumar Roy Chowdhury, 11-A, Canal Circular Rd., Daspara Calcutta  
 Phalaram Mondal, Galsi, Burdwan  
 Phani Bhusan Bain & Co, Patankhali, Gosaba P O, 24-Pargs  
 Popsingh Muralidhar, Motiganja Bazar, Balasore  
 Radha Govinda Piamanick, Ranaghat, Nadia  
 Rajani Kanta Mondal, Hingalgunge, 24-Pargs  
 Ray & Co, Chaurbandai, Dinajpur  
 S K K Perumal Konai, East Veli St., Madua  
 Sadhan Mondal, Betbana Bansra, 24-Pargs  
 Sarada Prosad Hazra, Memari, Burdwan  
 Satish Chandra Addy 6, Chetla Road, Calcutta  
 Satish Chandra Dass, Radhikapur, Dinajpur  
 Satya Kinkar Chowdhury, Khana Junction, Burdwan  
 Shamapada Ghatak, Galsi Burdwan  
 Sita Nath Mondal, Matla Bazar, Canning Town  
 Subodh Chandra Saha, 11 G, Canal Circular Rd., Daspara, Calcutta  
 Surja Kanta Dutta, Saktighar, Burdwan  
 Surujmal Guzarimull, Motiganja Bazar, Balasore  
 Sushil Chandra Kundu, Koukong, Dinajpur  
 T S Natarajaiyer, Magmaisamiyer St., Mannargudi, Tanjore  
 Tulsidas Dutt, 66, Chetla Road, Calcutta

### PAINT & VARNISH DEALERS.

#### BENGAL

Indian Commercial Syndicate, 24, Wyei Street, Wari, Dacca

#### BIHAR

D N Ghosh & Sons, Bankipuri, Patna

Hua Lall & Sons, Bakergunj,  
Bankipore, Patna  
P B Shah & Co, Jhama, 29, Clive  
Street, Calcutta & Lohar Chawl,  
Bombay

**BOMBAY CITY**

A Ramdas & Co, 34, C P. Tank  
Road, Bombay  
Abbasbhoy & Gulamally Rang-  
walla, 319, Shaik Memon Street,  
Jooma Musjid, Bombay  
Abdoolally Sulemanji Rangwalla,  
26, Sutar Chawl, Bombay  
Adamally Kikabhoy Rangwalla,  
309, Shaik Memon St, Bombay  
Bassein Paint & Varnish Co, A-1,  
Old Framji Petit Mill Bldg,  
Magazine St, Near Reay Road  
Station, Mazagaon, Bombay  
Bombay Metal Spraying Co, Auto-  
genous House, 63, Ferguson Rd,  
Lower Parel, Bombay  
Damodardas Kanji, 50-56, Nagdevi  
St, Bombay  
Flintrock Products, Belvedere Hill  
Road, Mazagaon, Bombay  
G Mahomedally & Co, 25, Man-  
galdas Road, Bombay  
Goodlass Wall (India) Ltd, For-  
bes Bldg, Home Street, Fort,  
Bombay  
Hindustan Products Mfg Co, Old  
Aujirwadi, Rose Cottage Lane,  
Mazagaon, Bombay  
Hiptoola & Co, 37, Khokha  
Bazar, Bombay 3  
Indian Clay & Raw Products Sup-  
ply Co, Nagdevi St, Bombay  
Kapadia Bros, Alahi Baug, Abdul  
Rehman St, Pydhoni, Bombay  
M Baker & Co, 31, C P Tank  
Road, Bombay  
R Gay & Co, Exchange Bldgs,  
Spiott Rd, Bombay  
Ratansingh Raisingh & Co, Arab  
Bangalow, Khetwadi Back Rd,  
10th Lane, Bombay 4  
Wilkenson Heywood & Clark,  
Lakshmi Bldgs, Sir P. Mehta  
Rd, Bombay

**BOMBAY PRESIDENCY**

B. H. Yelburgi, M.Sc, Agrahar  
Street, Gadag, (Distempers)  
Diwan & Co, Gadag, Dharwar

Gulambusen Abdulai & Sons,  
Buranpuri Bhagal, Surat.  
Jawahar Spray Printing Works,  
Near Lucas Park, Sukkui, Sind  
Mehta Vrijlal Mulchand & Co,  
Unjha

**CALCUTTA**

A D Coomar & Sons, 12 C, Clive  
Row, Calcutta  
Abinash Chandra Dutt, 81, Sham-  
bazar Street, Calcutta. Phone  
BB 6781  
Arratton & Co, 5, Dalhousie Sq,  
East, Calcutta  
**Aukhoy Coomar Laha,**  
1, Dharamtola Street, Calcutta  
Factory —Laha Paint House, 7,  
Chittaranjan Avenue, Calcutta  
B K. Datta & Sons, 35, Clive St.  
Calcutta  
Bengal Paint Supply Co, 16, Bon-  
field Lane, Calcutta  
Central Supply Agency, 29, Water-  
loo Street, Calcutta  
Chandi Charan Nayak, 124-1, Bow  
Bazar Street, Calcutta  
Chatterjee & Co, 109, Dharam-  
tola Street, Calcutta  
Commercial Stores Supply Co.  
26A, Clive Street, Calcutta  
D Mallick & Co, 33A, Clive St.  
Calcutta Phone Cal 5613  
D Waldie & Co (Lead Oxides  
Ltd), 8, Clive Street, Cal  
Don Watson & Co, Ltd, 19, Bri-  
tish Indian St, Calcutta  
Dutt & Sen, 23, Ashutosh Mukher-  
jee Rd, Bhowanipuri, Calcutta.  
F A Heilgers & Co, Chartered  
Bank Bldgs, Calcutta  
G C Laha, 1, Dharamtala St  
Calcutta  
Gonesh Paint Mart, 1, Jagannath  
Ghat Rd, Calcutta  
International Paint & Composi-  
tion Co, Ltd, 8, Strand Road,  
Calcutta  
Kali Charan Mukherjee & Co,  
Strand Ware House, G P O, Cal  
**Koylash Chunder Dutt &  
Sons,** 20, Bonfield Lane, Cal-  
cutta (Oldest Genuine Paint  
House)

Lyall Marshall & Co, 4, Foulie Place, Calcutta

Macfarlane & Co, Ltd, 18, Tangra Road, Entally, Calcutta 45,

Hughes Rd, Bombay

MacGavin & Balfour Ltd, 11, Clive Street, Calcutta

Midland Chemical Works, 2, Church Lane, Calcutta (Chrome & Blue Manufacturers & Dealers).

New Calcutta Paint Stores, 2, Bonfields Lane, Calcutta (Phone Cal 3083)

Nobin Chunder Dutt & Co, 1, Dhanamtala St, Calcutta

P B Shah & Co, 29, Clive St, Calcutta, Jhalia & Lohai Chawl, Bombay

P K Dutt & Co, 94, Harrison Road, Calcutta

Rajani Kanto Dutt, 10, Lower Circular Road (Park St June), Calcutta

Robert Ingham Clark & Co, Ltd, 2, Clive Row, Calcutta Bi — Ballard Estate, Bombay

Roy & Roy, 1-1D, Ganga Prosad Mukherjee Rd, Calcutta

Russa Paint Mart, 160, Rash Behari Avenue, Calcutta

S K Dutt & Bios, 143, Cornwallis Street, Calcutta

S N Dey, 9, Bonfield Lane, Calcutta

Satish Chandra Nundy, 38, Clive Street, Calcutta

Shaw Wallace & Co, Ltd, 4, Bankshall St, Calcutta

T E Thomson & Co, Ltd, 9, Esplanade East, Calcutta

#### CENTRAL PROVINCES

Ranade & Co, Wardha, C.P.

#### DELHI

B S Shadi & Co, Fatehpuri St, Delhi

Delhi Colour Paint Mart, Fatehpuri Street, Delhi

K B Sarkar & Co, Fatehpuri St, Delhi

Liberty Chemical Products, 1665, Kali Masjid, Delhi

Lyall Marshall & Co, Connaught Circus, Delhi

Ram Chand Kome Mal, Katra Tobacco, Delhi

S Karam Ellahi & Sons, Fatehpuri Street, Delhi

#### INDIAN STATES.

Bhikhan Chand Bhansaly, New Circular Market, Bikaner

H L Anand & Brothers, Anand Buildings, Kapurthala

Hyderabad Oil & Paint Co, 83-3, Public Garden Road, Hyderabad, (Deccan)

Purushottam Ghelabhai, Poindar (Paints & Glazes)

Seth Dalpatram & Co, Ranjit Road, Jamnagar, Kathiawar.

#### KARACHI

Allbhoj Jeewanjee & Sons, Marriot Road, Karachi

Bashirul Piarilal & Sons, Bunder Road, Karachi

#### LAHORE

B Sen & Co, Hotu Singh Road, Lahore

#### MADRAS CITY

Parry & Co, Post Box No 12, 1st Line Beach, Madras

Ruda & Co, 1K, Venkata Chela Mudaly St, P T, Madras

Wilson & Co, P O Box 2, Madras

#### MADRAS PRESIDENCY.

Dixit & Co, Kurundvad

T R Rangaswamy Naidu, 341-42, Big Bazar Street, Trichinopoly

#### PUNJAB

C R Valarti Ram Kohil, Katra Hari Singh, Amritsar

Inayatullah & Co, Rawalpindi

Khurana Brothers, Majith Mandi, Amritsar

#### UNITED PROVINCES

Aicher & Co, Civil Lines, Cawnpore

India Chemical Research Works, Baniapara, Aligarh

Macwall & Co, Ltd, Mall Road, Cawnpore

R & D Colour Co, 20, Govindji-nath, Benares City

S Serajuddin & Sons, Cawnpore

Shadi Ram & Sons, 33, La Touche Road, Lucknow

**PAINT & VARNISH MANUFACTURERS.****BENGAL**

Calcutta Paint, Colour & Varnish Works, 14, Koibartapara Lane, Salkia, Howrah.

Solar Paints & Varnish Mnfg Co, Bariackpore Trunk Road, P O Belgharia, 24-Pargas

**BIHAR**

Bharat Sugar Mills Ltd., Sidh-walia, Saran

**BOMBAY CITY**

Bassein Paint & Varnish Co, A1, Old Fiamjee Petit Mills Bldgs, Magazine Street, Mazagaon, Bombay

Blundell Spence & Co Ltd, Rustom Building, Church Gate St, Fort Bombay

D Shah & Co, Valpakhadi, Mazagaon Road, Bombay

Elephant Oil Mills Ltd, Rustom Bldg, Church Gate St, Bombay  
Goodlass Wall (India) Ltd, Forbes Bldg, Home Street, Fort, Bombay

New Era Paint Works, Opp By-culla Station, Byculla, Bombay  
Noble Paint & Varnish Co, Atlas Mills Compound, Reay Road, Bombay 10

Pinchin Johnson & Co, Ltd, Exchange Bldg, Ballard Estate, Bombay

**CALCUTTA.**

Bathey & Kemp, P6, Mission Row Extension, Calcutta Factory—

60-2, Dharamtolla St, Calcutta  
Bengal Paint and Varnish Works, 1, Mission Row, Calcutta

Hadfields (India) Ltd, 12, Mission Row, Cal Works—Shibpur Hovle, Robson, Barnett & Co (India) Ltd, Chartered Bank Bldgs Calcutta

Imperial Paint Works, 22-1-1, Jeliatola Street, Beadon Street P O, Calcutta Factory Lalooah

Indian Paint Colour & Varnish Co, Ltd 8 Lyons Range Calcutta  
Jenson & Nicholson (India) Ltd, 2, Faillie Place, Calcutta

Koylash Chunder Dutt & Sons, 20, Bonfield Lane, Calcutta

Lakshmi Paint Works, 14-2, Old Chinabazar St, Calcutta

M. L. Ghosh & Co., 19-G, Windsor House, Calcutta Factory.—35, Mondalpara Lane, Baranagore

Murarka Paint & Varnish Works, Ltd, 4-E, Dalhousie Sq., Stepen House, Calcutta

Napier Paint Works, 3, Moti Sil Street, Calcutta

Orient Varnish & Enamel Works, 29, Madan Mitter Lane, Cal Robert Kearsley & Co, 2, Clive Row, Calcutta

Royal Enamel & Varnish Works, 78-79, Beadon St, Calcutta

Shalmai Paint Colour & Varnish Co, Ltd, 6, Lyons Range, Cal Standard Paint Works Ltd, 44, Beadon Row, Calcutta

Virgin Paint Works, 39, Strand Road, Calcutta

**CENTRAL PROVINCES.**

Narlawa Paint Works, Katni, Jubbulpore

Olpheit's Paint & Products, Ltd, Katni, Jubbulpore

**INDIAN STATES**

General Paint & Oil Co, Ltd, 108, Brigade Rd, Bangalore

Hyderabad National Industries, Station Rd, Hyderabad (Dn)

Industrial Works, Attungal P O, Travancore

Poibandar Paint & Distemper Mfg Co, Poibandar, Kathiawar.  
Sun Colour & Paints Mfg Works, Jamnagar, Kathiawar

**LAHORE.**

Punjab Paint Colour & Varnish Works, Outside Mochi Gate, Lahore

Ravi Paint Colours & Varnish Works, 52 Anarkali Rd, Lahore

Sir Daya Kishen Kaul & Sons, 29, Lawrence Rd, Lahore

**PUNJAB**

A. N. Malik & Sons, J-246, Aya Moholla Rawalpindi (Finest Quality Putty and Whitening)

Anand Paint Colour & Varnish Works, Kapurthala, Punjab

Globe Paint Works, Chhehera, Amritsar

**PAPER MERCHANTS.****ASSAM.**

Datta Dev & Co., Habiganj,  
B & A Ry

**BENGAL**

Dacca Paper Depot, Patuatuly,  
Dacca  
Gopinath Bhandel 26, Patuatuly,  
Dacca (Also Stationers)  
Pran Hari Sen, Anderkilla,  
Chittagong

**BIHAR**

Behar Commercial Agency, Muza-  
ffarpur  
Gopi Nath Badai Nath, Hajuganj,  
Patna City  
Mahabir Kali & Co., Purani Go-  
dam, Gaya  
Ramgulam Sah Naubat Ram, Ma-  
haraganj, Saran Dt

**BOMBAY CITY**

A Akberally, 36, Sutar Chawl,  
Bombay  
A G Bengaliwalla & Co, 33 35,  
Tamarind Lane, Fort, Bombay  
A R Salebhai & Co, Salebhai  
Building, 76-78, Sutar Chawl,  
Bombay  
Abbashbhai Kadaibhai, 35 39 Su-  
tar Chawl, Bombay  
Abdul Habibbhai & Sons, 196, Ab-  
dul Rehman St., Bombay  
Abdulhusain Nazaralli & Bios,  
27, Sutar Chawl, Bombay  
Abdul Latif Habibbhai & Sons,  
196, Abdul Rehman St., Bombay  
Akbarally Abdulhusain & Co, 19,  
Sutar Chawl, Bombay  
Alibhoy Akbarally, 36, Sutar  
Chawl, Bombay  
Anil Brothers, 44-46, Dhanji St,  
Bombay 8  
Avinid Paper Co, 49 Sutar  
Chawl, Shaikh Memon St, Bom-  
bay  
Asok Brothers Limited, 104 Apo-  
lo Street Mubarak Manzil,  
Fort, Bombay  
Bharat Paper Mart, 49 53, Sutar  
Chawl, Bombay  
Bombay Paper Marketing Co,  
Graham Building, Store Lane,  
Parsi Bazar, Bombay

Budroodin Ahmedji, 41, Sutar  
Chawl, Bombay  
Chandulal & Co, 100, Dhanji St,  
Parsi Gali, Bombay  
Deccan Paper Mart, 52, Mirza St,  
Bombay  
E A Chhil, 6, Sutar Chawl, Bom-  
bay  
Eastern Paper Co, 44, Sutar  
Chawl, Bombay  
H G Hawa, 168, Abdul Rehman  
Street, Bombay  
Haveliwala Paper Mart, 34, Mirza  
St., Outfort, Bombay  
J B Advani & Co, Ltd, 27, Man-  
galdas Road, Bombay  
J N Singh & Co, Ltd, 68, Prin-  
cess St, Bombay Br —Delhi,  
Lahore, Lucknow & Cawnpore  
Jayantilal Gandhi & Co, 45,  
Mint Road, Fort, Bombay  
K Amritlal & Co, 27-29, Mirza  
St, Parsi Gali, Bombay  
Kalamazoo Parchment Paper Co  
(India), Ltd, 114, Cowasji Patel  
Street, Bombay  
Krishna Paper Mart, 26, Mangal-  
das Rd, Princes St, Bombay  
Mahomedally Hebatbhoy & Co,  
15, Mirza St, Bombay  
Mojlal & Co, 6, Mirza Street,  
Bombay  
Sudama Paper Mart, Kokil Kunj-  
Khai, Bombay  
Swastik Paper Mart, 84, Kande-  
wadi, Bombay 4  
United Commercial Co, Sir P  
Mehta Road, P B 388, Bombay

**BOMBAY PRESIDENCY.**

M R Joshi, B A, Ram Nivas,  
Laxmi Road, Poona City  
R Parikh & Co, Gandhi Road,  
Bala Hanuman, Ahmedabad

**CALCUTTA**

Andrew Yule & Co, Ltd, 8, Clive  
Row, Calcutta  
Bardvanath Manmathanath Saha  
44-45, Monohar Dass St, Cal (We  
Manufacture Hand made papers  
& Trade account Books of all  
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Hainbari Lane, Cal  
G Ghose & Co, 20, Upper Ch-  
culai Rd, Cal  
Ghazipur Perfumery Works, 11,  
Jatin Das Road, Lake Area,  
Calcutta  
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H Bose, "Delkhosh House,"  
52, Amheist St, Calcutta  
H Mohammad Siddiq & Co, 13,  
14, 15, Colootola St, Cal  
Hajee Khoda Buksh Nabi Baksh,  
87, Colootola St., Calcutta  
Healing Home, 56, South Road,  
Entally, Calcutta  
Hindusthan Chemical & Perf-  
umery Works, 118, Farashar Rd,  
Calcutta  
J B Dutt & Co, 2, Ram Kirshna  
Lane, Calcutta  
J N Dutt & Co, 29, Shambazar  
St, Calcutta  
Jagannath Rampdas, 46, Upper  
Chitpur Rd, Calcutta  
Jewel of India Perfume Co, 19A,  
Sree Gopal Mullick Lane, Cal  
Kamala Chemical Works, 30,  
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**P. M. Bagchi & Co**, 19, & 19-1, Gulu Ostagan Lane, Calcutta

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**Pioneer Perfumery Works**, 58, Beniatola St, Cal

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**S. A. Rowshan Ali**, 90, Colocotola St, Calcutta (Attar)

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**S. L. & Brothers**, 3-B, Noorimal Lohia Lane, Cal

**Shaikh Golam Huzrat & Son**, 156, Harrison Rd, Cal

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**Simco Chemical Works**, 14, Pagayapatty St, 2nd Floor, Calcutta

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 Biharlal Laxmi Narain, Raj Bada Chowk, Indore City.  
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 Falsa Chemical Co., Kapunthala French Lightning & Perfumery Co of Bombay, A (7) 1668, Laxmi Bhavan, Chilkalguda, Secunderabad  
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 M B Subba Rao & Son, 942, Hammantakdi, Hyderabad, Dn.  
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 Mysore Islamia Agarbatti Works (Regd), Opp Jamia Masjid, Secunderabad, Dn  
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 Raj Beauty Works, Bungalow 16/5, Abbot Rd., Lahore

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 James Perfumery Co, 38, Thambu Chetty St, Madras  
 Luckman & Co, 302, Jangachetty St, Madras  
 T A Rahman & Sons, 10, China Bazar Rd, Madras  
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 Mital & Company, P O Kandhia, Muzaffarnagar  
 Mithalal Mangli Piasad, Kanauj  
 Mool Chand Sharma, Jhinhak, Cawnpore.  
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 National Chemical Works, Post Box 57, Piliakothi, Cawnpore  
 Pearaylall Shukla, Shukla Street, Cawnpore.  
 Perfume Products Co operative Society, Rakht Gardens, Ghazipur  
 Qamruddin Badiuddin, 59, Chowk, Allahabad  
 Raj Zinat Works, Raj Bhawan, Abott Rd, Lucknow  
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 Sitaram Ayodhiaprasad, Kanauj, Faizkhabad  
 Sur Roy Bhandal, Meston Road, Cawnpore  
 United Perfumery Works, Bhusamandi, Lucknow  
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Mohammad Mordin, 70, Colootola St, Cal

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P Muncherjee & Co, 10, Hamam Street, Fort, Bombay.

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Regal Perfumery House, 1, Colootola St, Cal

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gaum  
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15, Clive Row, Cal  
Camera Exchange, 17-2-A, Chow-  
ringhee Rd, Cal  
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tolla St, Cal  
Dey's Mercantile Stores, A13, Sir  
Stuart Hogg Market, Cal  
Eastern Studio, 42, Central Ave-  
nue South, Calcutta (Artist)  
John Bles & Co, 4, Chatawala  
Lane, Cal  
Kodak Ltd, 17, Park St, Cal  
M L Shaw Ltd, 5-1, Dharamtalla  
St, Cal  
M P Studio Devans 79, Harri-  
son Road, College Street Junc,  
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Cornwallis St, Cal  
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Calcutta

Photo Society, 157B, Dhairumtolla  
St, Cal

Photographic Stores & Agency Co  
Ltd, 154, Dhairumtolla Street,  
Calcutta

Popular Pharmacy Ltd, 167,  
Russa Rd, Cal

Raymeshies Studio, 41, Dharam-  
tolla St, Cal

Regent Photographic Service, 10,  
Hungerford St, Cal

Savoy Camera Stores, 4 Chow-  
ringhee Rd, Cal

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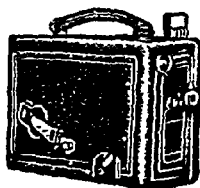
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Bazar, Indore

British Photo Stores Co, Mali-  
wada St, Junagadh, Kathiawar.

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 Eos Studios, 427, Kalbadevi Rd, Bombay  
 Felicita Studio, Babulal Mansion, Sea Face, Chowpatty, Bombay  
 Prabhakar Bios, 105, Mahatma Gandhi Rd, Fort, Bombay  
 Universal Photo Enlarging Co, 354, Kalbadevi, Kalyan Bhuvan, Bombay  
 Vanguard Studios, 365, Thakurdiwar, Bombay 2

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 Ichharam Vanmalidas, Khaturwad, Bulsar, Surat  
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 B N Das, 167, Russa Road, Calcutta  
 Bengal Photo Co, 153, Chowringhee, Calcutta  
 Bengal Phototype Co, 5, Shama Charan De St, Calcutta B1 — 58-3, Harrison Rd, Cal  
 Bourne & Shepherd, 141, Corporation St, Calcutta  
 C Guha, 15, College Sq, Cal  
 Calcutta Photo Service, 7-3-B, Hospital St, Cal  
 Choong Shun Studio, 84, Bentinck St, Calcutta

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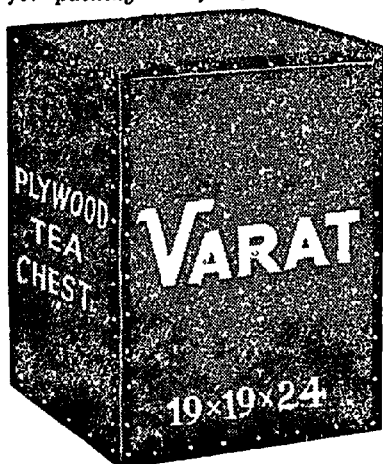
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Chowk, Near Fountain, Delhi  
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Chowk, Delhi  
Gupta Printing Works, Esplanade  
Road, Delhi  
Imperial Printing Press, Chandni  
Chowk, Delhi  
Model Press, Bunn Bastian Road,  
Delhi  
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Travancore  
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Hoosein Ebrahim, Guzdar Bldg, Kadia Moholla, Null Bazar, Bombay  
Jagannath Jhambherlal, 439, Duncan Road, Bombay  
Kasam Essa, 438, Duncan Road, Bombay  
Kasam Haji Essa, Dongri St., Bhat Bazar, Bombay  
Koorpal Hemraj, Daniar Lane, Gamdevi, Bombay  
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Moosa Jooma & Co, Duncan Rd Bombay (Onion)  
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Rambhoy Kasibhoy, 655, Sachaphi, Poona Camp  
Raojibhai Malukchand, Sholapur  
Ratilal H Vasani, Dharampur, Surat (Honey)  
Shah Kearatamal Pannalal, P O Chinchwad, Poona  
Shambhuprasad P Trivedi, Kapadwanj, Kaira (Castor Seeds)  
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Kali Mohan Bhowmick, 231, Daimahatta St, Cal (Potato)  
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Lalmohan Chakraverty, 6-17, Cosipur Road, Calcutta  
Mohandas Chandradas Nepali, 96, Harrison Road, Cal (Musk)  
N C Bose & Co, 25, Swallow Lane, Calcutta  
Nibaran Chandra Das, 231, Daimahatta St, Cal (Potato)  
Panchanan Mullick, 24-26, R G Kai Rd, Shambazar, Cal  
South India Corporation (Madras) Ltd, 34, Ezra St, Cal

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Kasturi Stores, Chandni Chowk,  
Delhi  
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Gudampara Cardamom Estt, Suri-  
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Market, Jamnagar, Kathiawar  
(Garlic)  
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jurapally P O, Travancore  
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mir  
Kashmir Honey Stores, Udhama-  
pore, Kashmir

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yam, Travancore

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Kangra (Himalayan Honey)  
Muza Abdul Hamid & Co, Kai-  
mon Deorhi, Amritsar  
Nathu Kagnia, Mohalla Khoji,  
Ambala City (Bamboos)  
Perfumeary House, Bala Bazar,  
Ludhiana  
Punjab & Kashmir Stores (Regd.),  
Amritsar (Saffron, Musk, Asa-  
foetida and herbs)  
Seth J N Bansal Lal Talwar,  
Punana Bazar, Ludhiana  
Tibet Musk Depot, Ludhiana

#### UNITED PROVINCES

Bishun Kariyalay Guisahaiganj.  
(Medical Herbs, Fruits, etc)  
Churanji Lal Shah, Pithoragarh,  
Almora (Musk & Silajit)  
Debsingh Bist & Sons, Bene-  
nag, Almora, (Musk, ghee,  
cloth)  
Durga Pd Madan Lal, Katra  
Ahmedganj, Farrukhabad.  
(Potato)  
Gobaidhan Joshi, Malli Bazar,  
Almora (Ghee, Chillies, Musk  
& Honey)  
Gomti Pd Madan Lal, Katra  
Ahmedganj, Farrukhabad  
Himalayan Products Co, 21,  
Inam Bldgs, Viceroy Rd, Dehra  
Dun  
Khanna Brothers, Bisati Bazar,  
Jhansi City  
Lal Kamla Singh, Nai Bati, Far-  
rukhabad (Potato)  
Nathi Lal Ganpat Lal Bansel,  
Bundaban, Muttra  
Seth Chand Prasad Sukhvi Pri-  
asad, P O Deoband, Saharanpur  
Shankar Narain Kishen Narain,  
Kunana Bazar, Farrukhabad  
(Potato)

Get ideas of profitable occupations from "Independent Careers for the  
Young." Re. 1/12. Industry Book Dept., Shambazar, Calcutta.

**PROVISION DEALERS.****AJMER-MERWARA.**

Raj Narain Dube, Alwai Gate,  
Ajmer.

**BENGAL**

Bandhab Samabaya, 144, Kasun-  
dia Road, Howrah

**BOMBAY.**

Abdul Kadal Moosabhai, 138, Sa-  
rang St, Bombay

Akbarally Ebrahimji, 38C, Cow-  
asji Patel St, Fort, Bombay.

Anglo-Persian Co, Jerbai Wadi  
& King Edward Rd, Parel,  
Bombay

Budirodin Mahomedally & Sons,  
238-240, Nagdevi St, Bombay

C M Mavji Sunderji & Co, 223,  
Kariana Bazar, Samuel Street,  
Mandvi, Bombay

Chimanlal Chumilal & Co, Velji  
Lakhamsey Napoo Wadi Maza-  
gaon, Bombay

Cowasjee Dadabhoy Parsi Bazar  
St, Bombay

Dinshaw Khodabad & Co, Craw-  
ford Market, Bombay

Eastern Stores, 38, Station Rd,  
Santa Cruz, Bombay

Ebrahim Nazarally & Co, 7, Bala  
Mansion, Abdul Rehman Street,  
Bombay

Essoofally Russooljee, 249, Nagde-  
vi St, Bombay

H Raj & Co, Peerbhoy Build-  
ing No 2, 93, Princess Street,  
Bombay 2

Hirjibhai Maneckji & Co, 9, Man-  
galore St, Fieie Rd, Fort,  
Bombay

Pure Products Limited, Swadeshi  
Mills Estate, Gurgaum Bombay  
4

R Jadavji & Sons, Harbour View,  
Colaba Causeway, Bombay

Shree Bharati Bhandar, Petit  
Bldg, Nana Chowk, Gowalia  
Tank Rd, Bombay

**BOMBAY PRESIDENCY.**

Rajaram K Agarwal, Castle-Rock,  
Dt Belgaum

**CALCUTTA.**

Blue Bird Stores, 3, Bertiam St  
Calcutta

Dinshaw & Sorabjee, Sealdah  
Station, Calcutta

Hajee Md Akbar Khan, 70 & 73,  
S S Hogg Market, Cal

Hajee Tela Mohammed & Bros.  
S S Hogg Market, Cal

James Wright Ltd 22, Chittaran-  
jan Avenue, Cal

Jubilee Stores, 35, Park St, Cal.

M Young & Co, 6 & 7, Bertram  
St, Calcutta

Mazdas Ltd 7-1, Lindsay St,  
Calcutta

Minerva Emporium, 46-14, Wel-  
lesley St, Cal

Mohan Lall & Co, 203, Harrison  
Rd, Cal

Nag Stores, Chandu Chawki Street,  
Calcutta

Sen, Law & Co, 52 & 52-1,  
Wellesley St, Cal

T P Amoo & Sons, 56-57, Bertiam  
Street, New Market West, Cal  
(Madras Pickles, Papadams &  
Dry Fishes)

**CENTRAL PROVINCES**

G Mehta & Co, Civil Lines Nag-  
pur

**DELHI**

Bishembei Nath Suraj Pershad,  
Katia Tobacco, Delhi

Durga Peishad Udmi Ram,  
Ishwai Shawan, Delhi.

Harnarain Gopinath, Khari Baoli,  
Delhi

**INDIAN STATES.**

Beam Stores, Lakharapura.  
Kota

Cheapest Provision Stores, Chik-  
magalur, Mysore

P H Wadia & Sons, Porbandar

**KARACHI.**

A Chumilal & Co, Bunder Road,  
Karachi

Bashesheernath & Sons, Bunder  
Road Karachi

K J Panachand & Co, Bunder  
Road, Karachi

T Motandas & Co, Bunder Road,  
Post Box 25, Karachi

**PUNJAB.**

National Khalsa Stores, Jaran-  
wala, Lyallpur

Taxila Provision Store, Taxila,  
Rawalpindi

**UNITED PROVINCES.**

Chotey Lall & Co, Mall Road,  
Cawnpore

Eduljee Boyce & Co. Civil Lines,  
Shansi.

H Allahdia Mustaq Ahmad, Mes  
ton Rd, Cawnpore

H M Hasan & Sons 4, Aminabad  
Park, Lucknow B1 —Bombay

Johnson Stores, Meerut

Oudh Cocogem & Provision  
Stores, Hazratgunj, Lucknow

P D Gooba & Sons Prop G N  
Khatti, The Mall, Cawnpore

**Shankerlal Kullomal,**  
Lohaigali, Agra City.

Western Provision Stores, Meerut  
Rd, Roorkee

**PUMP MANUFACTURERS & DEALERS.**

(Also see Machinery Dealers).

**BENGAL.**

Lloyd's Engineering Works, Ltd,  
190, Belihs Rd, Howrah

S C Dass & Co, H O 178, Beli  
hs Rd, Howrah

**BOMBAY CITY.**

M H Dinshaw & Co, 47, Apollo  
St, Fort, Bombay

Precision Machine Tool Agencies,  
Warden House, Sir P. Mehta  
Rd., Fort, Bombay Br —Ahme  
dabad

Turner Hoare & Co, Ltd, Gate  
way Bldg, Apollo Bunder, Bom  
bay

**CALCUTTA.**

A N Hussunaly & Co, 28, Strand  
Rd, Cal

A T Alihussin & Co, 29, Strand  
Rd, Calcutta

American Elec & Pumps Distri  
butors, 4, Mission Row, Cal

Bid & Co, Chartered Bank  
Bldgs, Cal (Pearn Pump).

British Electrical & Pumps Ltd,  
1-1B, Mission Row, Cal

Darling Pump Manufacturing Co,  
58, Clive St, Cal

General Electric Co (India) Ltd,  
Magnet House, Central Avenue,  
Calcutta

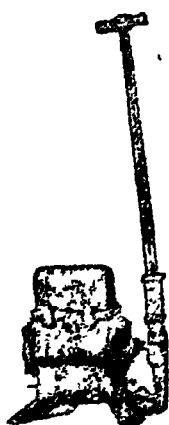


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Harland Engineering Co Ltd, 12,  
Mission Row, Cal

M S Vernal & Co, Bharat In-  
surance Building, Central Ave-  
nue, Calcutta

Mathei & Platt Ltd, 7, Hare St,  
Calcutta

Maya Engineering Works, 36-A,  
Russa Road, Kalighat P O, Cal

Murlees Watson Co, Ltd, P O  
Box 2096, 23, Grosvenor House,  
Cal (Also Bombay & Madras)

S. C. Dass & Co, 178, Belihas Rd,  
Howrah Factory —Old Bena-  
ies Rd, Belgachia, Howrah

**T. E. Thomson & Co. Ltd.,**  
9, Esplanade East, Calcutta  
Factory Di Satya Road,  
Kidderpore

Water Supply Specialists Ltd,  
Mission Row Extension, Post  
Box 424, Calcutta

Western India Industries, 137,  
Canning St, Calcutta

Worthington Simpson Ltd, 10,  
Clive St, Cal

#### LAHORE.

Pump Store, Loco Shed, Lahore  
Reliable Water Supply Service of  
India Ltd, Sanda Rd, Lahore

#### MADRAS CITY

Anand Brotheis, 334, Thambu  
Chetty St, G T, Madras  
(Agents for Maya Pumps)

Best & Co, P O Box 63, Madras  
McDowell & Co, Ltd, P O Box  
36, Madras

Myers Pumps, 1-173, Broadway,  
Madras

Richardson & Cruddas, 1st Line  
Beach, Madras

Water Supply Specialists Ltd  
1-173, Broadway, Madras

#### PUNJAB.

Metal Works, Koti Loharian, E  
Sialkot

### RADIO SETS & ACCESSORIES DEALERS.

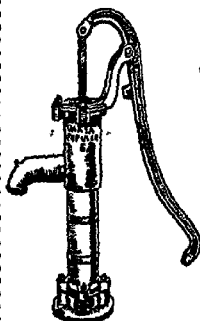
#### BENGAL.

Agarwal Musical Co, Kuseong

Bengal Electric & Engineering  
Co, Jalpaiguri

'GRAM "Mayaeng," Calcutta

'PHONES } Office South 49  
              } Works South 140



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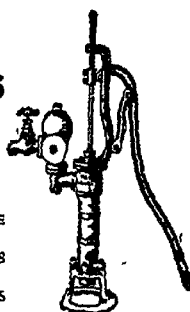
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Works: 23, Russa Road South, Tollygunge, Calcutta.

Dacca Musical Mart, Victoria Park (South), Dacca  
 Reliable Radio House, 21, Rajkissen St, Uttarpara, Hooghly  
 Sound Service & Sales, 12, Commercial Row, Darjeeling

#### BIHAR.

Basmall & Co (India) Ltd, White House, Castan's Town, P O Baldyanath, (Deoghar), S P Saikar Bios & Co, Purnia

#### BOMBAY CITY

Acme Radio Corporation, Pitale Mansion, Vithalbhai Patel Road, Bombay  
 Amzel & Co., Nusser House, New Queens Rd, Bombay 4  
 Bombay Motors & Radios Ltd, 33 New Queen's Rd Bombay  
 Bombay Radio Co, Ltd, 73-5, Queen's Rd, Bombay 2  
 Eureka Radio Service, Purshotam Building, New Queen's Road, Bombay  
 Evergreen Radio Corp., 26-B, Adenwala Bldg, New Queen's Rd Bombay  
 Fazalbhoy Ltd, 16 New Queens Rd, Bombay  
 Globe Radio & Sound Corporation, Chakla St Bombay  
 India Radio & Cables Communications Co, Ltd Radio House, Apollo Bunder, Bombay  
 International Radio Co, Malabar View, Chowpatty Bombay  
 International Trading Corporation Ahmed Chambers 386, Lamington Rd., Bombay 4  
 Laxmidas & Dwarkadas, Laxmi Bhuwan, 466, Sandhurst Rd Bombay 4  
 Melody Radio Service, 100, Muttan St Null Bazar, Bombay 3  
 Oriental Radios Ltd Lamington Chambers, Lamington Road, Bombay 4  
 USL Sales & Service Nusser House, New Queen's Rd Bombay (G E Radios & USL Batteries)

#### CALCUTTA.

Automatic Works, 111, Lower Circular Rd, Calcutta  
 Bombay Radio Co, Ltd, Kent House, Mission Row Extn, Cal

Bose's Radio Laboratory, 28-1A, Ramkanto Mistry Lane, Cal  
 C C Saha Ltd, 170, Dharamtala St, Calcutta  
 Calcutta Radio Service, 10, Shama Charan De St, Cal  
 Calcutta Standard Elec & Radio Co, 1, Vivekananda Rd, Cal  
 Chicago Telephone Radio Co., Ltd, 25, Chowringhee, Post Box 8936, Calcutta H O Bombay  
 Cine Radio Corporation, 51, Chittaranjan Avenue, Cal  
 Cornwallis Radio Works, 128-11A, Cornwallis St, Cal  
 Coronation Radio Co, 59, Chittaranjan Avenue, Cal  
 Dass Radio Suppliers, 258, Upper Chittpore Rd, Cal

#### Electrical Storage Co.,

112 Narkeldanga Main Road, (P O Box No 684), Calcutta (Senco Radio Battery Manufacturers)

Electro Radio Works, 85-1 Shambazar St, Cal

G. S Emporium Limited 47-A, Chittaranjan Avenue (South) Calcutta

General Electric Co, (India), Ltd, Magnet House, Chittaranjan Avenue Cal

General Radio & Musical Emporium, 47A, Chittaranjan Avenue South, Cal

Gramophone Co Ltd, Dum Dum, Calcutta

Gramophone Shop, 4, Becham St, Calcutta

Gramo-Radio Stores, 95A-1, Shambazar St, Cal

Indian Radio & Telecommunications Co Ltd, Bentinck House, Bentinck St, Cal

International Radio Emporium, Ltd, 132, Russa Rd, Cal

L C Saha Ltd, 20D, Lindsay St, Calcutta, 183-4, Dharamtala St, Calcutta

M L Shaw Ltd, 5-1, Dharamtala St, Calcutta

Mono Radio Ltd, 44, Central Avenue, South, Cal

N B. Sen & Bros 11, Esplanade East, Cal

Nan & Co, Ltd 9A, Dalhousie Sq East, Cal

**TRADE TERMS & ABBREVIATIONS :** Unique collection alphabetically arranged. As 6. INDUSTRY BOOK DEPT, Shambazar, Calcutta.

National Radio & Talkie Equipment Co, Butto Krishna Avenue off Grey St, Cal  
 Phillips Electrical Co, (India) Ltd 2, Heysham Rd, Cal

**Popular Pharmacy, Ltd**, 167, Russa Rd Cal

Radio Accessories Co 193-2, Rash Behari Avenue Cal

Radio Corporation of Bengal 15, Ram Chand Nandi Lane, Cal

Radio & Electric-Technical Works, 36-1-1, Gouri Bari Lane, Cal

Radio Gramophone Co, 4A-1, Chowringhee Place, Cal

Radio House, 40, Chittaranjan Avenue, Cal

Radio and Photo Stores, 44B, Robert St, Bowbazar, Cal

Radio Supply Stores Ltd, 3, Dalhousie Sqr, East, Cal

Raja Gramophone Co, 161-1, Harrison Rd, Cal

Scientific Radio Service, 9, Shama Charan Dey St, Cal

Sealdah Gramophone Mart, 165, Bowbazar St, Cal

Standard Radio Service, 8, Madan St, Calcutta

T Abiko, 22, Canning St, Cal

Vasudeva Ltd, Grand Hotel Arcade, Calcutta

#### CENTRAL PROVINCES

Kohinoor General Agency, Residency Rd Nagpur

#### DELHI

Aruna Trading Company, 30, Connaught Place, New Delhi, (Andrea Radio)

Delhi Radio Co, Chandni Chowk, Delhi

Globe Radio & Eng Co, Connaught Place, Delhi

Modern Radio & Electric Store, Chandni Chowk, Delhi

Northern India Radio Co, Ltd, 719, Chandni Chowk, Delhi

Radio & Television Corp, Connaught Place, Delhi

Radio Supply Co, Chandni Chowk Delhi

Supreme Radio & Service Co, Connaught Place, New Delhi  
 Universal Radio Co, Chandni Chowk, Delhi

#### INDIAN STATES

Dazzle Electric Works, Sanyogitaganj, Indore

G M Malik & Co, Kapurthala, Punjab Factory—Court Rd, Kapurthala

Hyderabad Engineering House, Hyderabad, Deccan

International Agency, Sayaji Rd, Mysore

Nagori Brothers, Didwana Oil, Lashkar, Gwalior

Radio Sales & Service, Mercantile Buildings, Kottayam, Travancore

Universal Trading & Radio House, 1240, Abid Rd, Hyderabad, Dn

#### KARACHI

K I Gualani, Bunder Road, Karachi

Karachi Radio Co, Inverarity Rd, Karachi

Radio Lamp Works, Ltd, Karachi

#### LAHORE

Oriental Radio Corporation, 4, Doyal Singh Mansions, The Mall, Lahore (Leading Distributors for Northern India and spare parts specialists)

Parco, The Mall, Lahore

#### MADRAS CITY

All India Radio Co, 186, Mount Rd, Madras

Madras Radio Co, 3-105, Aimee St Madras

Raghunandan & Co, 2, Poona-mallee High Rd, Madras

#### MADRAS PRESIDENCY.

A V Laxminarayan Chetty, 34, Big Street, Kumbakonam, S I

(We manufacture Sunday Washing Soaps & we sell West End & Favre Leuba Watches)

Ganesh Electric Stores, Big Bazar, Trichinopoly

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St., Coimbatore  
Supreme Radio Electrical Co.,  
George V Rd., Karaikudi  
U. M. S. Radio Factory, Gopal  
Bagh, Avanashi Rd., Coimbatore.

**PUNJAB.**

Askais Radio College, Circular  
Rd., Gujrat  
Bhagat Ram & Sons, Sadai Bazar,  
Jullundur Cantt  
Pindi Radio Service, Edwardes  
Rd Rawalpindi (Engineers)

**RAJPUTANA**

Industrial Engineering & Radio  
Co., Sirohi, (Rajputana)

**UNITED PROVINCES**

A Ghosh & Bros, 54, Aminabad  
Park, Lucknow  
Akashvani, 87, Johnstonganj, Al-  
lahabad  
Bhargava Engineering House, 16  
Canning Rd., Allahabad  
Goorha Brotheis. Saraswati Bha-  
van, Etah  
Ideal Radio & Scientific Works,  
149-150, Gwalior Rd., Agra  
Nandlal Son & Bros, Sadar Bazar,  
Meerut  
Sri Sri Ramkrishna Engineering  
Agency, D53-39, Luxa, Benares

**RAILWAY STORES MANUFACTURERS.**

(Also see Engineering Works)

Bantra Engineering Works, 233,  
Behlhos Road, Howrah Props  
—D K Das & Co, Ltd

Calcutta Spring Mfg Co., 84-A,  
Clive Street, Calcutta (For La-  
minated, Volute and Helical  
Springs)

Commercial & Rly. Stores Co.,  
44, Beadon Row, Calcutta

Foundry & Railway Equipment  
Co., 100, Clive Street, Cal

Guest, Keen, Williams, Ltd., 7,  
Council House Street, Cal

Indian Standard Wagon Co., Ltd.,  
12, Mission Row, Calcutta

Pally & Co, Ltd, 19, British In-  
dian Street, Calcutta

R Wright & Partners Ltd, 19,  
Aurangzeb Rd, New Delhi

Railway Engineering Corporation  
4, Clive Ghat Street, Cal

Railway Engineering Stores, 98-4,  
Clive Street, Calcutta

Robert Hudson (India), Ltd  
12, Mission Row, Calcutta

Swiss Locomotive & Machine  
Works, Post Box No 690, Bom-  
bay

Universal Railway Material Sup-  
ply Co., 4, Commercial Bldgs.,  
Calcutta

**RAZOR BLADE MANUFACTURERS & DEALERS**

Chimanlal Desai & Co, 54, Ben-  
tinck Street, Calcutta

Esmail Tar Mohamed & Bros,  
22, Cutlery Bazar, Bombay.

Esoofally Rahimbhoy, 205, Cut-  
lery Bazar, Bombay.

M. A. Nasiri & Co, 139-10, Nag-  
devi Street, Bombay

N Peermahomed & Co, 191,  
Dhaboo Street, Bombay 3

Northern India Safety Blade &  
Spring Works, Lakshminarain  
St., Anarkali, Lahore

P G Sadhwani Coy, Old Postal  
Rd, Hyderabad, Sind

Yeshwant Bros, Anand Bihari,  
Matunga, Bombay 19

**REFRIGERATOR DEALERS.**

An Conditioning Corporation  
Ltd, 8, Esplanade Mansion, Cal  
American Refrigerator Co., 60,  
Dharamtolla Street Calcutta

Bombay Ammonia Refrg Stores  
& Packing Co., Near Kaiser-i-  
Hind-Press, Bazar Gate Street,  
Fort, Bombay

Bombay Coastal Refrigerating Co.,  
Sasson Docks, Colaba, Bom-  
bay

British Refrigerators, 30-A, Chow-  
ringhee Road, Calcutta

Dry Ice & Refrigerators Ltd, 5,  
Royal Exchange Place, Cal

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**INDUSTRY BOOK DEPT.,** Shambazar, Calcutta.

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 Eastern Electric & Trading Co. Connaught Place, Delhi  
 Electrolux Refrigerators, 19-C, British Indian St, Calcutta  
 F & C Osler, Ltd, 12, Old Court House Street, Calcutta  
 Gramophone Co, Ltd, Jessore Rd, Dum Dum, Near Calcutta  
 Heatly & Gresham Ltd, 6, Waterloo Street, Calcutta  
 Ice Machinery Mart, 18-2, McLeod Rd, P O Box 173, Lahore  
 International General Electric Co, (India), Ltd., 7, Wellesley Place, Calcutta  
 Lightfoot Refrigeration Co. Ltd, 138, Bellhaghatta Rd, Cal

Lionell Ellison & Co, 11, Connaught Place, Delhi  
 M S Vernal & Co, Bharat Insurance Bldg, Central Avenue (South) Post Box 2320, Cal  
 Maharaja Lal & Sons, Chandni Chowk, Delhi  
 Mazdas Ltd, 7-1, Landsay St, Calcutta  
 Mousell & Co., Ltd, Mercantile Building, Lal Bazar, Cal  
 N B Sen & Bros, 11, Esplanade East, Calcutta Br -21, Chowringhee, Calcutta  
 Refrigerators (India) Ltd, 13, Russel Street, Calcutta  
 Refrigerators United Trading Co, 132, Russa Road, Calcutta  
 Vasudeva Ltd 15-5, Chowringhee, Grand Hotel Arcade, Calcutta

### RIBBON MANUFACTURERS.

Bharat Carbon & Ribbon Mfg Co, Lawrence Road, Karachi  
 Globe Typewriter Co, 10, Clive Row, Calcutta  
 Hindustan Carbon & Ribbon Factory, 24, Bagmati Rd, Cal

Khoday Ribbon Carbon & Allied Industries, 38, Santhasapet, Bangalore City (Type-writer ribbons)  
 Typewriter Ribbon Works, Bankipuri, Patna

### RICE MERCHANTS.

(Also see Paddy Merchants & Rice Mills)

#### ASSAM

Dasnam Miramull, Gauhati

#### BENGAL

Adhai Ch Manmohan Saha, Chak Bazar, Comilla  
 Almola Rice & Trading Co, Mohestola, 24-Pargs  
 Deyyanatram Saha, Chak Bazar, Comilla  
 H D Mukherji, Basuhat Bazar, 24-Parganas  
 Hossen Kassem Dada & Co, Strand Road, Chittagong

Kalachand Kartik Dasarat Saha, Chak Bazar, Comilla  
 Kapildeo Prasad Bhagat, Nithpuri, Dinajpur  
 Munsif Abdul Jalal Talukdar, P O, Kasiani, Faridpur  
 S N Saha, P O Gopalganj, Faridpur  
 Sanbhogchand Kapoorchand, Suchunti, Sainthia  
 Umesh Ch Mandal, Vill Parkeidanga, P O Mary Gopinathpuri, Faridpur



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 Chhotalal Poonjabhai & Co, Jain Temple Bldg 228, Bhat Bazar, Bombay.  
 Chunilal Premji & Co, 272, Narsi Natha St., Bhat Bazar, Bombay.  
 Currimbhoy Laljee Sajun & Co, Frere Rd, Carnac Bunder, Bombay (Rice Broker)  
 Damjee Champsee & Co, 227, Bhat Bazar, Bombay  
 Dewjee Tokarsee & Co, Ahmedabad St, Bombay  
 Dhanji Bhojraj & Co, Ganpat Bldg, New Chinch Bunder Rd, Bombay  
 Dhanji Ladhahbai, Godown No 846, New Rice Market, Carnac Bunder, Bombay  
 Hasham Premji, Rice Godown, Carnac Bunder, Bombay  
 Jayantilal Popat & Co, 113, New Chinch Bunder Road, Bombay.  
 Khetsee Chaturbhoy & Co, Ahmedabad Street, Rice Godown, Frere Road, Bombay  
 Kuipal Harsi & Co, 116, New Chinch Bunder, Bombay 4  
 Ranchhoddas Jeyiam & Sons, Dongli Street, Bhat Bazar, Bombay  
 Shamji Velji & Co, 242, Longie St., Bhat Bazar, Bombay.

**BOMBAY PRESIDENCY**

Radhakrishna & Co, Bhadiakali, Nasik City

**CALCUTTA**

Adam Abdul Gani, 4, Amratola Lane, Calcutta (Oil).  
 Adam Hajeer Peermohamed Essack, 1, Amratolla Lane, Calcutta, Cochin.  
 Golak Chandia Saikar, 21, R G Kar, Road, Calcutta  
 Guha Rice Co, 22, Amratolla St, Calcutta  
 Hajeer Habib Hajeer Peermohamed, 4, Amratolla Street, Cal  
 Panchugopal Sadhukhan, 86, Shambazar Street Calcutta

Srimantha Chandia Das, 21, R G. Kai Road, Calcutta  
 Tar Mohamed Janoo, 4, Raj Mohan St, Calcutta, Cochin.

**INDIAN STATES**

A T A Lakhmanam Pillai, Chalai, Tirvandium, Travancore  
 Hoosen Kassam Dada, Alleppey, Travancore Bt —Quilon, Coimbatore, Cannanore 26, Amratola Lane, Calcutta  
 V K Abdul Rahman, Kadur, Mysore

**MADRAS CITY**

Hajeer Jamal Noormohamed, 13, Anderson Street, Madras  
 K. Sabapathy Chetty, Revoo Godowns, Madras  
 Mohanlal Kanailal, Mint Street, Madras

**MADRAS PRESIDENCY**

A M. Palaniswami Mudahar, Ekambarapuram, Conjeeveeiam  
 A T P Kayer, Vniapandianpatnam, Tinnevely  
 Balabhadria Rama Krishnaiah, Ellore. W. Godavary.  
 Best Rice Co, Buckinhampet, Bezwada, Kistna  
 C Ramiah Chetty & Sons, Nawabpet, Nellore  
 Essak Bros, Tellicherry  
 Golajana Somulu, Main Road, Narasapattam, Vizag Dt.  
 Hajeer Sattar Hajeer Peermohamed, Cochin Amratola Lane Calcutta  
 Hajeer Shaik Madhai Sahib, Mandy Etode  
 N C Masilomoni Mudahar, Conjeeveeiam  
 S Govindarajaloo, Udampet, Coimbatore  
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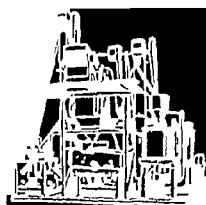
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K Jacob Thomas, Kanjirapalli, Travancore, Mannaighat, Olavakkot, Malabar	Pathanapuram Rubber & By-Products Co, Ltd, Pathanapuram, Travancore
K Kunjuvarkey & Bros, Kanjirapalli, Travancore	Periyar Rubber Co Ltd, Thattakkaad, Alwaye, Travancore.
K V Kurien & Sons, Mundakayam, Travancore	Poonmudi Tea & Rubber Co Ltd, Kallai Bridge, Kallai, Travancore.
K V Zachariah & Bros, Mundakayam, Travancore.	Portland Rubber Co. Ltd, Makut, Coorg
Kedamakal Rubber Syndicate Ltd, Meicai, Coorg	Rajagiri Estate Ltd, Pattanapuram, Travancore
Koliekkanam Estate, Fairfield, P O Peeimade, Travancore.	Rani, Travancore Rubber Co, Ltd, Vedeserikaia, Travancore; Mundakayam, Travancore
Kuttanad Rubber Co Ltd, Kalnakarv, Pulimunnoo P O, Travancore	Rubber Plantations Investment Trust Ltd, Quilon, Travancore.
Malankara Rubber & Products Co. Ltd, Kottayam, Travancore.	Sampajee Rubber Co. Ltd, Mercara, Coorg.
Malayalam Plantations, Ltd, Kalthuritty, Thenmalai, Travancore, Kanjirapalli, Travancore, Thodupuzha, Travancore	Sheranally Rubber Estt, Olavakkot, Cochin
Mai Thoma Rubber Co, Ltd, Alleppey, Travancore	Stagbrook Rubber & Tea Estt, Ltd, Mundakayam, Travancore.
Mundakayam Cipe Rubber Soling Factory, M/A Aspinwall & Co Ltd, Cochin	T K Varughese, T K Oommen, & Dr T K Abraham, Changanur, Travancore
Mundakayam Valley Rubber Co. Ltd, Mundakayam, Travancore.	Thiumbadi Rubber Co, Ltd, Mookam, P O, Malabar
Mundakottakal Chacko Kochukula, Pathanamthitta, Ranni, Travancore	Thodupuzha Rubber Co, Ltd, Thodupuzha, Travancore.
Munjamullay Tea & Rubber Estate, Travancore.	Travancore Rubber Co, Ltd., Mundakayam, Travancore
Murphy Estates, Ltd, Maudakayam, Travancore	Tropical Plantations, Ltd, Mundakayam Travancore, Thodupuzha, Travancore.
Nenmeny & Red Lynch Estates, Mundakayam, Kottayam	V M Joseph, Elattapatta, Travancore
Oriental Rubber Co Ltd, Alleppey	Valkundam Company, Ltd, Martandam, Padmanabhapuram, Travancore
Ossooi Rubber Estt. Hassan, Mysore	Vanchinad Rubber & Produce Co, Ltd, Changanacheerry, Travancore
P Ittyavirah Joseph, Kanjirapalli, Travancore.	Vaniampara Rubber Factory, Vaniampara, Cochin State.
P T Thomas, Mundakayam, Travancore.	Vellanikea Rubber Factory, Thalanikaia, Trichur, Cochin
P V Kunuvilla & Sons Kothamangalam, Travancore	Vellhamattom Rubber Co, Ltd, Alleppey, Travancore
Palali Estate, Maitandam, Trivandrum	Yendayar Estate, Mandakayam, Travancore

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Cochin Malabar Estates, Ltd,  
Nilambur, Malabar  
Eddivanna Estate, Nilambur, S I  
Elak Rubber Co, Ltd, Agts T  
Stanes & Co, Ltd, Coimbatore  
Indian Peninsular Rubber & Tea  
Co, Ltd, Coonoor, Nilgiris  
Kazhni Rubber Estate, Kazhni  
P O, Via-Alatur, Malabar  
Kerala Calicut Estates, Ltd,  
Mokkam, Kunnamangalam, Ma-  
labar  
Kombutuki Estt, Salem, Yercaud,  
Boiamidi, S I Ry

Kuttiadi Rubber Co, Ltd, Kut-  
tiadi, N Malabar

Moganaad Peak Coffee & Rubber  
Estt, Nagalur, Salem

Mysore Rubber Syndicate, Pala-  
pilly, Padukad, S I Ry.

Nilambur Rubber Co, Nilambur,  
Malabar

Pudukad Rubber Co, Nilambur,  
Malabar.

Pudukad Rubber Co Ltd, Pala-  
polly, Nellayi, S I R

Pullangode Rubber Estate, Ltd,  
Pullangode, Malabar

Southern India Rubber Co, Ltd,  
Palparai, Coimbatore

Thirumbadi Rubber Co, Ltd,  
Monkkam, Kunnamangalam,  
Malabar

Valakadle Peak Coffee & Rubber  
Estate, Nagalur, Salem

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ket, Room No 7, Park Circus,  
Calcutta

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ayam, Travancore

India Rubber Guttapercha &  
Telegraph Works Co, Ltd, 7,  
Old Court House St, Cal-

Khaitan Sons & Co, 1 Commer-  
cial Buildings, Clive St, Cal

Northern Rubber & Asbestos Co,  
41, Strand Rd, Cal

**Oriental Import & Export  
Agency**, 52, Shrikrishna Nivas,  
New Silk Bazar, Kalbadevi Rd,  
Bombay

South India Corporation (Mad-  
ras), Ltd, 34, Ezra St, Cal

T Maneklal Mfg, Co, P O Box  
No. 111A, Bombay (Sheets)

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Goodyear Tyre & Rubber Co,  
(India) Ltd, 7-9, Mathem Rd  
Bombay

Merchant Brothers, 151, Nagdevi  
St, Bombay

**Oriental Import & Export  
Agency**, 52, Shrikrishna Nivas,  
New Silk Bazar, Kalbadevi Rd,  
Bombay

Sankalchand G Shah & Co, Ha-  
numan Bldgs, Tamba Kanta,  
Pydhonie, Bombay 3

Supreme Rubber Co Ltd, Wa-  
dia, Near Bombay

**BOMBAY PRESIDENCY.**

Alliance Metal & Rubber Mfg.  
Co, Station Rd Ahmedabad

**CALCUTTA.**

A & N Banerjee Co, 84A, Clive  
St, Calcutta

Bridgestone Tyre Mfg Co Ltd,  
54, Bentinck St, Cal

Calcutta Surgical Medical Agency,  
59, Canning St, Cal

Chimanlal Desai & Co, 54, Ben-  
tinck Street, Calcutta (Bridge-  
stone Tyre)

Dunlop Rubber Co, (India), Ltd,  
57B, Free School St, Calcutta  
Dunlop House, Bombay, Mount  
Rd, Madras

Fuystone Tyre and Rubber Co, of  
India Ltd, -19, British Indian  
St, Calcutta

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MATCHES AND THEIR MANUFACTURE** Rs 3. Industry, Calcutta.



India Scientific Stores, 14/2, Old China Bazar St, Calcutta Phone Cal 5023, Factory 76/2, Cornwallis St, Calcutta

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K R Lynch & Co, 113, Chittaranjan Avenue (South), Cal.

Khaitan Sons & Co, Commercial Buildings, 1, Clive St, Cal.

Leyland & Birmingham Rubber Co, Ltd, Agents, Burn & Co, Ltd, 12, Mission Row, Cal.

Madanlall & Co, 79, Clive St, Cal

Modern Traders, 26, Strand Road, Calcutta

N Peermahomed & Co, 191, Dhaboo Street, Bombay 3

Novelty Rubber Stores, F-68, New Market, Calcutta.

Rubber Products & Moulding Co, 74, Ananda Palit Rd, Cal.

Rubber Stores, 44, Moti Sil St, Calcutta

S Abdul Rashid & Bios, 52-1, Canning St, Calcutta (Balloons)

S H Abdul Aziz Abdul Khaliq, 44 45, 46, Canning Street Calcutta (Balloons)

Sen Bios & Co, 108, Prince Anwar Shah Road, Calcutta (Reclaimed rubber goods)

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A V Thomas & Co, Cochin.

Cheria Abdulla, C K, Cochin

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P C Thomas Bros, Changanacherry, Travancore

Thompson Company, Mundakayam, Travancore

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Indian Tyre & Rubber Co, (G B) Ltd, Second Line Beach, Madras

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Alpha Trading Co, Post Box No 46, Amritsar

Amalgamated Industries Ltd, 34, Haines Rd, Bombay

Asian Rubber Works, Khandivilli, Bombay

Asiatic Rubber Works Ltd, 54-10, Chingreehatta Rd, Cal

Aspinwall & Co, Alleppey, Cochin

Assam Bengal Rubber Works, 11, New Tangia Road, Cal

Basant Rubber Factory, Sion Bridge, Bombay

Bata Shoe Co, Ltd, Batanagar, 24-Paiganas

Bengal Belting Works Ltd, 2, Dalhousie Square, Cal

Bengal Waterproof Works, (1940) Ltd, Panihatti, 24-Pargis

Bharat Rubber Works, Ltd, B T Rd, Kamarhatti, 24-Pargis

Bharat Rubber Works, Jogeshwari Caves Rd, Bombay

Bhattacharyya Rubber Works, 18, Sura East Rd, Cal

Bombay Rubber Goods Mfg Co, Ratangunj, Malad, Bombay

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Gem Brothers, P O Box No 932, Andheri, Bombay	M Hira & Sons, Nila Gumbad, Lahore
Globe Rubber Works, 2, MacLagan Rd, Lahore	Martand Parshuram Jog & Co, Mahal Bazar, Nagpur, C P
Godwyn Rubber Works, Suryo- daya Mills Compound, Tardeo, Bombay	Mayfaun Rubber Works, Suriyo- daya Mills Compound, Tardeo, Bombay
Gold Mohur Rubber Works, Jag- mohandas Bldg, 386, Gungaum Rd, Thakurdwar, Bombay	Mooply Rubber Co, Karvathy Road, Cochin
Hindusthan Rubber Works, Bhav- nagar, Kathiawar	Mundakayam Crepe Rubber Sol- ing Factory, Mundakayam,
Hindusthan Rubber Works, 243-1, Kasba Road, Ballygunge Cal	Mysore Rubber Factory, Deigad- betta P O, Mysore State
Imperial Rubber Works, 10, Pay- mental Garden Lane, Cal	Nanco Rubber Works, Lawley Road, Coimbatore
Imperial Rubber Works (India) Factory, 131-A, Bhawanishanker Rd, Dadar, Bombay	National India Rubber Works Ltd Sialkot City
India Rubber Goods Mfg. Co, 47, Munaiipukur Rd, Cal	National Rubber Manufacturing Co, Tiruvalla, Travancore
Industrial Supplies, Ratilal Man- sion, Parekh St Bombay	New Excelsion Rubber Works, Bull Road, Lahore
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Pharbat Rubber Works, Ghod-  
bunder Rd, Malad Bombay.  
Pioneer Rubber Mills Sialkot  
City  
Premier Rubber Works, 92, Nar-  
keldanga Main Rd Cal  
R B S Jani Rubber Mills, Chowk  
Benares Factory Laluan, How-  
rah Bt —Bombay, Delhi, La-  
hore Hyderabad Deccan  
Rani Rubber Works Bunder Rd,  
Karachi  
Rubber Products & Moulding Co,  
74, Ananda Palit Rd, Cal  
Silvertown Co (India Rubber  
Gutta Paricha & Telegraph  
Works Ltd) 7, Old Court  
House St, Cal  
Standard Rubber Works, Atlas  
Mill Compound, Bombay

Supreme Rubber Co, Sewree  
Cross Rd, Wadala Bombay  
Swarajya Industries Ltd, Jogesh-  
wari Caves Rd, Bombay  
Swastik Rubber Products, 38,  
Gokhale Rd, Bombay  
T Maneklal Mfg Co, P O Box  
111-A, Bombay  
Thomas Korula, Wakefield House,  
Ballard Estate Bombay  
Travancore Rubber Works, Tri-  
vandrum, (Travancore)  
Trichur Rubber Works, P O Vel-  
lanikara, Trichur  
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Ubeioi Rubber Industries Ltd,  
Wazirabad High Rd Sialkot  
United Rubber Works Limited 51  
Tangra Road, P O Tangra, Post  
Box No 11206, Calcutta  
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Rd, Wadi Bandan Bombay 9  
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Dunlop Rubber Co, (India), Ltd,  
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Madoga Mfg & Co, 2, Mission  
Row, Calcutta  
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Dacca

#### BIHAR.

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kuan, Patna

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Fort, Bombay

James Manufacturing Co, 407,  
Kalbadevi Rd, Bombay  
Maharaja Agrasen & Co 302,  
Kalbadevi Rd, Bombay 2  
Mankama Bros, Kalbadevi Road,  
Bombay  
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Nasik City

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Indian Rubber Stamp Works, 49,  
Enza St, Cal  
N Mitta & Co, 33-B, Harrison  
Rd, Calcutta  
P M Bagchi & Co, 19 & 19-1,  
Gulu Ostagun Lane, Cal  
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Co 37, Shikdai Bagan St, Cal  
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Calcutta  
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Rahim & Co, Afzalgunj High  
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Karachi  
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L Logonatham & Co, 165-A,  
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L. Pathy & Co, 228, Govindappa  
Naick St, G T, Madras  
M K Swamy & Co, 27, Swamy  
Naicken St, Madras  
Napier & Co, 3, Waller Rd,  
Mount Rd, Madras.  
Rubber Stamp Making Supplies  
Co, 19, Kasi Chetty St, G T,  
Madras  
Somomudaly & Co, China Bazar,  
Madras

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B N Reddy & Co Cocanada  
G Raju Pillay & Bros, Gudiyat-  
tam, S India  
Gupta & Co, Agriaharam St,  
Erode  
K Gurusamy, Wedderburn St,  
Erode  
K S N Murty Gupta & Co,  
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Devidas Khanna & Co, Ck 32-35,  
Nepali Khapra, Benares City  
Raj Kishore Bajpai, Chowk,  
Cawnpore  
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Fruestone Tyre & Rubber Co, of India Ltd, Hay Bunder Road, Sewree, Bombay

Hindustan Tyres Ltd, Opp Agilpada Police Stn, Lamington Rd, near Jacob Circle, Bombay

Laxmi Rubber Works, Queen's Rd, Karachi

R B S Jain Rubber Mills, Lillooah, Howrah

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British India Saddlery Mart, Cawnpore

Carlton & Company, Huziatgunj, Lucknow

Dost Mohd Ellahi Bux, Saddar Bazar, Delhi

Duni Chand & Sons, Mall Road, Simla

Goodwick & Co, 2-6, Bow Bazar St, Calcutta

Haji Mahboob Bukhsh Ehsan Ellahi, (Regd), Weston Road, Cawnpore

Ismail Mullick & Co, 5-4, Dharamtalla St, Cal

Kamruddin Adamji & Co, 135, Bhendy Bazar, Bombay

Lala Jagannath Prosad & Son, 2-2, Bow Bazar St, Cal

Osman Mullick, 7, Dharamtalla St, Calcutta

Punjab Saddlery, Commercial Bldg, Ambala

S Abdul Ghami & Sons New Delhi

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Bansidhai Dutt, 126, Khongia-putty St, Cal

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Bharat Salt Limited, 1, British Indian St, Cal

Deokarandass Gulraj, 46-1, Strand Rd Calcutta

Esmail Haji Abba, Rehmat Bldg, Koliwada, Mandvi, Bombay

Government Salt Golas, Salkia, Howrah

Gopilal Bankatlal, Bhaynder, Bombay

Hainand Rai Ramanand, Bara Bazar, Sambhai Lake

Indian Salt Manufacturers Ltd, Gujrat Mansion, 14, Bentinck St, Calcutta Factory:—Sudhuganj, (24-Paiganas)

Indo-Aden Salt Works Co, Alli Chambers, Tamarind Lane, Bombay

K S P S Shunmugavel Nadar Ayl, Tuticorin, S I

Lokamanya Salt Works Limited, 86B, Clive St, Calcutta

Nadir Salt Works, Poibanda, Kathiawar

National Chemical & Salt Works (India), Ltd, 5, Commercial Bldgs, Calcutta

O P N Arunachala Nadar Ayl, Tuticorin, S I

Okha Salt Works, Okha, Kathiawar

Oriental Salt Co, (1907) Ltd, Cocanada, Godavari East

P S Khumbatta, above Imperial Bank, Abdul Rehman Street, Bombay

Piemer Salt Mfg Co Ltd, 2, Commercial Bldgs, Cal

R B Sinaram Harbilas, Baibazar, Sambhai Lake

Salt Manufacturing & Trading Co Ltd, Colachel, Travancore

Valuable directions for construction of aerials and receivers are explained in **RADIO RECEPTION IN THEORY & PRACTICE** Price Rs 2/8

Sheoballabh Mandhana, Bara  
Bazar, Sambhar Lake  
Sitaram Gordhan Das, Bara  
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Sumandi Salt Factory, Gopal-  
pore, Orissa

Tata Chemicals Ltd, Bombay  
House, Bruce St, Fort, Bombay  
Factory —Mithapuri, (J & D  
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cutta  
Victor Salt Refinery, Lahore

### SANDAL WOOD OIL MANUFACTURERS & DEALERS.

A K Bhairucha & Co, 202, Bohra  
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Charni Road, Tiam Inc, Bom-  
bay  
Govt Sandal Wood Oil Factory,  
Mysore  
Hazel & Cedar, 4, Kaloo Ghosh  
Lane, Calcutta

Kangundi Industrial Works, Kup-  
pam, Chittoor Dt (Also Pat-  
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Lakshmi Sii Niwas Oil Mill, Kar-  
kala, S Kanara  
Rao Sahib Chandappa Iyer, Met-  
turi Dam  
Sandalwood Oil Factory, Kanau,  
Sh Palani Nadar, Arupukottai,  
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Rd Calcutta

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Civil & Sanitary Engineering  
Co, Ltd 11, Convent Road,  
Calcutta

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lege St, Calcutta

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bazar St, Calcutta

Gokaldas Shivalal & Co, 76, Kika  
St, Bombay 4

Gulam H Jaffer, 126, Baidanwala  
Bldgs, 1st Chinch Bunder,  
Bombay

Hindustan Co., Nizamabad, Pun-  
jab

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Cawnpore, Delhi & Simla

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Nagdevi St, Bombay

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wala,** Vora Bazar, Bhavnagar  
Kathiawar

Jivraj & Vimalal, 143, Kika St,  
Gulabwadi, Bombay 4

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Masseys (1930) Ltd, 2-27, Roya-  
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Calcutta

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Bagh, New Delhi

Pannalal Mohanlal & Co, 89,  
Nagdevi St, Bombay

Ramohan Prasad Ch Modak, Raj-  
gonj Comilla

Rohatgi Metal Foundry, Ltd, 26,  
Ajmere Gate, Delhi

S K Chakravarti Ltd, 1-1A,  
Mission Row, Calcutta

S K Khannah & Co, Suddei  
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plained in "Vegetable Oil Industry." Re. 1/12. Industry Book Dept., Cal.

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Branch —P 138-B, Russa Road,  
Calcutta

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Madras

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Bombay

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Circus, New Delhi

W H Deeth & Co, P O Box  
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Dave Chemical Works, Kalbadevi,  
Bombay

M Bhattacharyya & Co, 10, Bonfields Lane, Cal

P C Paul & Co, 13, Bonfields  
Lane, Calcutta

R C Chakravarty, 106, Cornwallis  
St, Calcutta.

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Frontier Tract, Assam

Calcutta Saw Mill, Dibrugarh,  
Lakhimpore, Assam

Margherita Saw Mill, Margheritta, Lakhimpore, Assam

Meeklanadi Saw Mill, Laimakui,  
Sadiya Frontier Tract, Assam

Surma Valley Saw Mill, Bhanga-  
bazar, Sylhet

Veneer Mills Sleeper Treatment Paint Works, Margherita, Lakhimpore, Assam.

#### BENGAL

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Sunderdas Saw Mills Co, Opp  
Reay Road Station, Reay Rd,  
Bombay

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Mills, Amalsad, Surat

Kasani Nichhabhai, Railway  
Yard Navsari, Surat

Maganbhai Kashibhai & Co,  
Chawpetty Rd, Bilimora

#### CALCUTTA.

Bengal Assam Saw Mill, 10-1A,  
Canal Circular Rd, Cal

Bhattacharjee & Co, Saw Mill &  
Box Factory, 8, Guindas Dutt  
Garden Lane, Ultadanga, Cal

City Saw Mills, 28, Chaulpatty  
Rd, Bellaghata, Cal

Commercial Wood Working Co,  
17, Mangoe Lane, Cal Factory  
—Ultadanga Main Rd, Cal

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Mysore State

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Kirkwatt Govt Saw Mill Kanara  
Kohinoor Saw Mill Ltd, Kallai,  
Malabar

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P O Box 66, Bombay

Rander-Kar & Co., Commissariat  
Bldg, Hornby Rd., Fort, Bom-  
bay

S V Sovani, 239, Gungaon Road,  
Bombay

Scientific Instrument Co., Ltd.,  
Navsari Bldgs., 240, Hornby  
Rd Bombay

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Dalhousie Sq East, Cal

Associated Instrument Manufac-  
turers (India). Ltd., B-5, Clive  
Bldg, 8, Clive St., Cal.

Bengal Apparatus Mfg Co., 4,  
Ultadanga Junction Rd., Cal

Bengal Chemical & Pharmaceu-  
tical Works, Ltd., 164, Manick-  
tala Main Rd., Calcutta

Bengal Industrial & Scientific  
Works, 112, Chittaranjan Ave-  
nue, Calcutta

Eastern Trading & Stores  
Agency, 219, Old China Bazar  
St., Calcutta

India Scientific Stores, 14/2, Old  
China Bazar St., Calcutta  
Phone Cal 5023, Factory.—  
76/2, Cornwallis St., Calcutta

James Murray & Co., Ltd., 5, Old  
Court House St., Cal.

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Market Cal

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tola, St., Cal

New Indian Scientific Apparatus  
Co., 151G, Raja Dinendra St.,  
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Ruth & Co., 11, Dalhousie Sq.,  
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Scientific Apparatus Co., 4, Mahk  
Lane, Bhowanipuri, Cal

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dan & Sons, 99-4, Canning St.,  
Calcutta

Scientific Glass Apparatus Co 5,  
Prossonno Kumar Tagore St.,  
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Apparatus)

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lash Bose St., Calcutta

Scientific Supplies (Bengal) Co.,  
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Market, Calcutta

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ner

Kunte Bros., Janak Ganj, Gwalior  
Laboratory Supplies Co., 511  
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Rd., Bangalore City

M B Subba Rao 942, Hanuman-  
tekdi, Hyderabad, Deccan

Madonna Scientific Works, Fraser  
Town, Bangalore

Mulidhar Modi & Sons, Sadai  
Bazar Jodhpur

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Ghulam Nabi & Sons, Mayo Rd  
Lahore

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Andhra Scientific Co., Ltd., 4,  
Blackie's Road, Mount Road,  
Madras Factory —Imperial  
Bank Road, Masulipatam

Central Scientific Supplies Co.,  
Ltd., 16, Sembudoss Street,  
Madras

Janarthanam & Co., Govinda-  
ppa Naick St., Madras

P Oll & Sons, Ltd., Mount Rd.,  
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Premier Indian Scientific Co., Ltd.,  
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G. T., Madras

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plained in "Vegetable Oil Industry." Re. 1/12. Industry Book Dept., Cal

Scientific Advance Co Ltd, 21, 22,  
Lingha Chetty St, Madras

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Modern Electric Works, Ambala  
City

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Ambala Cantt Br —Lahore

Scientific Apparatus Supply  
House & Workshop, Hall Gate,  
Amritsar

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Educational Supply Co, Bula-  
shwan, Larkana

Relu Mal Pesu Mal, Dhak Bazar,  
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ment Co, D48-142, Laksha Rd,  
Benares

Kishore Scientific Works, McNali  
Road, Bareilly

Scientific Apparatus & Chemical  
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Raja Nabo Kissen St, Cal

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Punjab Manufacturing Co, Sanda Rd, Lahore

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lico Ptg Co., Ahmedabad

Asoka Best Sewings Mfg Co.,  
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B Venkatakrishnanappa Setty &  
Bros, Sree Venkateswara Sew-  
ing Thread Factory, Kadur,  
Anantapur Dt

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Central India Spg Wvg & Mfg Co, Ltd, Empress Mill, Nagpur	Oswal Thread Factory, Kanak Mandi Bazar, Sialkot City
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Kamalaya, Ltd, College Street Market, Calcutta

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Shawl Museum, College Street Market, Calcutta

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Habib Ullah, Ahmad Ullah, Kash-  
meire Mirzapuri Nawal Kadal,  
Srinagar

Ishwai Dass Tikoo & Sons, Si-  
nagar, Kashmir

Kashmir Spinners & Weavers,  
Srinagar, Kashmir

Kashmir Weaving Co, Srinagar,  
Kashmir.

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Place, Calcutta

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Lane, Calcutta

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**SHELLAC MANUFACTURERS.****BIHAR.**

A M Arathoon's Shellac Factory,  
P O Jhalda, Manbhum  
Bhagwati Pd Agarwalla, P O  
Ranchi  
H J Apcar, Shellac Factory,  
Jhalda, Manbhum  
Hindpuri Lac Factory, Hindpuri,  
Pakaur (S Paigs)  
India Lac Co, P O Nishachatt,  
Dhanbad  
Murhu Lac Factory, Murhu,  
Ranchi  
Narayan Lac Factory, Murhu,  
Ranchi

**CALCUTTA**

Angelo Bros, Ltd, 6, Lyons  
Range, Calcutta  
Deokarandass Prabhudayal Shel-  
lac Factory, 50, Bosepara  
Lane, Calcutta  
Tollygunge Shellac Factory, Ha-  
thibai, Tollygunge, Cal

**INDIAN STATES**

Bhopal Produce Trust Ltd,  
Bhopal  
Government Lac Factory, Maleş-  
waram, Bangalore City  
Rewa State Shellac Factory,  
Umaria, Rewa

**UNITED PROVINCES**

Anant Ram Ganesh Prasad, Bad-  
likata, Mirzapore  
Babulal Bhagnati, Purnanjanah,  
Mirzapur

Badlikatra Lac Factory, Badli-  
katra, Mirzapore  
Baldeo Prasad Suiju Prasad,  
Muzaffaganj, Mirzapore  
Bishya Nath Prasad Baijnath  
Prasad, Dankingunj, Mirzapore  
Buddhu Ram & Bhagwan Das,  
Bhasiatola, Mirzapore  
Bujhawan Ram and Bandhu Ram  
Bhasiatola, Mirzapore  
Chedi Lall & Mewa Lall, Sabli,  
Mirzapore  
Debi Prosad Mewalal Jhamdas-  
bag, Mirzapur City  
Garib Ram Chedi Lall, Ganesh-  
gunj, Mirzapore  
Gaus Mahomed Khanuddin, Lal-  
dugga, Mirzapore  
Gopal Dass Kanhiya Lall, Muza-  
ffaigunj, Mirzapore  
Hajee Shaik Abdul Karim's Lac  
Factory, Dakhin Phatak, Mirza-  
pore  
Hani Dass Bishamber Dass,  
Muzaffaganj, Mirzapore  
Jagadish Brotheis, Dankingunj,  
Mirzapur  
Lachman Das & Maniakhn  
Lall, Ganeshgunj, Mirzapore  
Lodi Ram & Narain Dass, Sabli,  
Mirzapore  
Parsotam Dass Bindeshari Pai-  
sad, Narghat, Mirzapore  
Ram Dass & Behari Lall, Ganesh  
gunj, Mirzapore  
Rookher Ghat Co, Ltd, Rookher  
Ghat, Mirzapore  
Sujan Lal & Mahabir Prasad,  
Ganeshgunj, Mirzapore

**SHIP BUILDERS & ENGINEERS.**

Alcock, Ashdown & Co, Ltd, 16,  
Bank St, Fort, Bombay  
Buntto Co Engineers Ltd, Ball-  
ard Road, Cochin  
Calcutta Landing & Shipping  
Co's Works, 24, Howrah Road,  
Salkia, Howrah  
Clydeside Ship Repairing Works,  
233-4 Lower Circular Rd, Cal  
Ganges Engineering Works, Bally,  
Howrah  
Garden Reach Workshops, Ltd,  
43-46, Garden Reach, Cal

Hooghly Docking & Engineering  
Co Ltd, 3, Howrah Road, Sal-  
kia, Howrah  
Howrah Iron Works, 20, Telkal  
Ghat Rd, Howrah  
I G N & Railway Co's Dock-  
yard, 44, Garden Reach, Cal  
Mampilli Bros, Bastion Street,  
Cochin  
Mazagon Dock Ltd, Mazagon,  
Bombay 10  
National Transport Co Ltd, 309,  
Bowbazar St, Cal

Always Use Renowned "SANKHA & PADMA" BRAND GENJEE.  
D N BOSE'S HOSIERY FACTORY, 36/1-A, Sarkar Lane, Calcutta



R S N Co's Garden Reach  
Works, 43-46, Garden Reach,  
Calcutta

Shalimar Works, 63, Foreshore  
Rd, Shippur, Howrah

### SHIP CHANDLERS.

A Abbas & Brothers, 127, Nagdevi St, Bombay

A M Baker & Co, 218, Nagdevi St, Bombay

Adamally Sons Ltd, 277, Nagdevi St, Bombay

Aideshi B Cussetjee & Sons, 6, Rampart Row, Bombay

Chatrabhuji & Co, Lohani Chawl, Bombay.

Chatterjee & Co, 15 Chive Street, Calcutta

Cowasjee & Sons, Kiamani, Karachi

Dawoodi H Vasi & Co, 164, Nagdevi St, Bombay

Dinshaw & Co, Kiamani, Karachi

F E Darukhanawalla, 244, Nagdevi St, Bombay

Fazlehusein Salebhoy & Co, Poddar Chambers, 109, Parsi Bazar St, Fort, Bombay.

K C Shioff & Co, Aiyi Bhavan, Ballard Estate, Bombay

Khan Bahadur Abdul Haque Dovash, Feringhee Bazar Road, Chittagong

Khan Shaheb Mohammed Omia Meah, Strand Rd, Chittagong

Leo F. Machado & Sons, Kolthottam, Quilon & Trivandrum

Lionel Edwards Ltd, Contractor Bldg, Nicol Rd, Ballard Estate, Bombay

P Chatterjee, 7, Gaistin Place, Calcutta

P Davarajooloo Naidu & Sons, 1st Line Beach, Madras

P K Mohamed, The Harbour Market, Cochin, S India

Shalebhoy Tyebjee & Sons, "Shale" Building, Bank St,

Fort, Bombay Branches — Calcutta, Karachi, Secunderabad & Madras

### SILICATE OF SODA MANUFACTURERS.

Calcutta Glass & Silicate Works, Ltd, 9, Kundu Lane, Cal

Gujarat Silicate Works, 241, Maniktala Main Rd, Cal

H M Shah & Co, Snehalataganja, Indore City.

Punjab Silicate Works, 38, Bagmain Rd, Cal

Raj Silicate & Chemical Co, 44-3, Canal East Rd, Cal

Shewbuxrai Rameshwar Lall, 26, Burtolla St, Cal

Sree Durga Silicate of Soda Factory, P O Chikunda, Manbhumi Dt

Swadeshi Silicate Mfg Works, Naini, Allahabad

### SHOE MATERIAL DEALERS.

A C Mohamad, P16, Bentinck St, Calcutta

Eldai Leather Company, 7, Bentinck St, Calcutta

Final Trading Co, Hingmandi, Agra

Haji Vallimohomed Allimohomed & Co., P O Box No 44, Rajkot, Kathiawar

Oriental Import & Export Agency, 52, Shrikishna Nivas, New Silk Bazar, Kalbadevi Road Bombay

Roshan Leather Co, 74, Bentinck St, Calcutta

S Deb & Co, 80-2, Bentinck St, Calcutta

S Nazai Mohammed & Sons, Opp Shoe Market, Agra

### SILK FACTORIES.

Abdul Karim Silk Mills, Next to Sion Station, 144, Dhairavi Rd, Bombay

Amritsar Rayon & Silk Mills, Amritsar

Those after business will get novel business tips from **START A BUSINESS AS AN INDUSTRY BOOK DEPT** Shamshad, Calcutta

Ambika Silk Mills Co Ltd, 11-12, Haines Rd, Mahalaxmi, Bombay	Government Silk Factory, Jammu
Assam Silk House, Panbazar, Gauhati, (Assam)	Government Silk Factory, Srinagar
Assam Silk Factory, Soalkuchi, Kamrup B — Shillong, Dibrugarh, Soalkuchi	Government Silk Filature, Mysore
Ball Silk Weaving Co, Ltd, Ludhiana	Govt Silk Weaving Factory, Mysore City
Bangalore Silk Filature & Throwing Mills, Ulsoo Gate, Bangalore City	Govinda Silk Weaving Factory, Soalkuchi, Kamrup, Assam
Bangalore Woollen & Silk Mills Co Ltd Bangalore City	Hathiwata Silk Mills, 195-1, Harrison Rd, Calcutta
Bengal Silk Mills 13 Aniff Rd, Utkadanga, Cal	Imperial Silk Manufacturing Co, Srinagar
Bhadiapur Silk Factory, Bhadiapur, Birbhum	Indianese Silk Mills Co, 169-170, Sasoon Dock, Colaba, Bombay
Bharat Silk Mill, 10, Reay Road, Bombay	Indo Kashmir Textile Manufacturing Co, Ltd, Srinagar
Bipin Silk Mills Co Ltd 12, Dada Rd, Dadar, Bombay	J J Vasanra & Co, Bihmora, Surat Dt
Bombay Silk Mills, Near Tram Terminus, Colaba Rd Bombay	Jyanti Ramchandrappa Silk Weaving Factory, Bellary
Calcutta Silk Mfg Company Ltd, 16, New Jagannath Ghat Road, Calcutta Mill Khaddah	Kabadi Chicknagusa Venkusa's Silk Twisting Factory, Bangalore City
Calcutta Silk Mills, Kumarpala, Liloah, Howrah	Kashmir Silk Factory, Srinagar
Champak Silks Katra Nawab Shaheb, Delhi Factory Surat	Kenkere Silk Weaving Factory, Doddballapur, Bangalore
Chandiram Weaving Factory, Rohri	<b>Khoday Silk Throwing Factory</b> , 38, Santhusapet, Bangalore City (Silk throwing and twisting etc)
Chhoti Silk Mills Co Ltd, Supari Bugh Rd, Parel, Bombay	Lakshmi Venkateswaraswami Silk Weaving Factory, Rayadiug, Bellary
Chouksa Silk Weaving Factory, Shajahanpur	Lukman Weaving Works, Khairpur, Mirpurkhas (Sind)
Commercial Union Silk Weaving Factory, Barhai Shah Bridge, Srinagar	M S Muddaiya & Sons Silk Winding & Twisting Factory, Hanumanthapur, Bangalore
Coonwei Silk Mill, 30, Mission House Lane, Tollygunge, Cal	Minerva Mills, Ltd, Bangalore
Delhi Silk & Woollen Mills, Karol Bagh, Delhi	Modern Sarees House, 20, Grant St, Calcutta
Dewan Balmakund Gokulchand Silk Mills, Head Office — Lakshchoura, Benares Factory — Gausabad, Benares Dist	Muniruddin Ahmad & Co Muhammadpur P O Jangipur, Munshidabad
Eastern Silk Weaving Factory, Nadiad B B & C I Riv	Mysore Spinning & Manufacturing Co, Ltd, Bangalore City
Fancy Silk & Smallware Weaving Mills Ltd, Alipore Road end, Delhi	Norendia Silk Mill, Sagrampur, Surat
Gandhi Silk Factory, Agast Kund, Benares City	Patel Mills Ltd, Saharanpur
	Pholraj Rohri Silk Factory, Rohri, (Sind)
	Ramakrishna Industrials, Bhavan, (Via) Erode, S I

For full process of manufacture of phenyle read DISINFECTANTS & ANTISEPTICS Re 1/12 Industry Book Dept, Shambazar, Calcutta

Sankardev Silk Weaving Factory,  
Soalkuchi, Kamrup, Assam  
Saiwanand Raina, Srinagar  
Sassoon & Alliance Silk Mill Co.,  
Ltd, Victoria Road, Mazagaon,  
Bombay  
Sharma & Co, Gauhati  
Shri Lakshmi Silk Factory,  
Peddakuram, E Godavari  
Silk Weaving Factory, Tatta,  
Jaungshahi  
Silk Weaving Factory, 12, Bag  
Sunderdas, Benares  
Sindhwah Cloth Factory, Shikar-  
puri, Sind.  
South Indian Silks Limited,  
Gudiyattam, N Arcot  
Sree Champakadama Silk Throwing  
& Weaving Factory, 426,  
Nagarathapet, Bangalore City

Sri Anjaneya Weaving Factory,  
Bangalore City.

Sri Lakshmi Venkateswara Silk  
Weaving Factory, Rayadrug,  
Bellary

Sugan Mills, Dayaram Dharam-  
sala Rd, Rohri, Sind

Swadeshi Silk & Ribbon Mills Co.,  
Maldhia, Benares Cantt.

T. R. & Sons, Bangalore City

Taroon Silk Weaving Factory,  
Soalkuchi, Kamrup, Assam

Winsum Silk Mnfgr Co. Risal-  
pura, Mhow, C. I

**Wynson Silk & Hosiery  
Works,** (Regd), Chaman St,  
Ludhiana

### SILK MERCHANTS.

#### AJMER-MERWARA.

Hundamull & Sons, Kaisangan,  
Ajmer

#### ASSAM.

Assam Home Industrial Co.,  
Kamakhya, Gauhati

**Assam Valley Stores Ltd.,**  
Gauhati P O

Assam Silk House, Panbazar,  
Gauhati

Dass Brothers & Co, P O Soal-  
kuchi, Kamrup

Deb Brothers, Gauhati

# DASS BROS & CO.,

*Dealers in*

Assam Silk, Endi, Muga  
Thread, Muga waste and  
all varieties of cloths.

**Head Office :—P.O. SOALKUCHI, KAMRUP, ASSAM.**

**Branch Office :—Fanshibazar, Gauhati.**

Dewan & Co, Gauhati  
Dutt's Assam Supplying Agency,  
Gauhati.  
Ganeshdas Badiung Naiayan,  
Gauhati  
Janardan Das & Co, Barpeta  
Surajmall Haibux, Gauhati  
Surajmall Kamakshya Lall,  
Gauhati  
W Kundan Das, Gauhati Road,  
Shillong

**BENGAL**

Bata Krishna Ranoo, Islampur  
Chawk, Murshidabad  
Bengal Co operative Silk Union  
Ltd, Malda  
Bengal Silk Stores, P O Bishnu-  
poie, Bankura  
Chowdhury & Sons, Malda  
D Dalal & Sons, Badangunj,  
Hooghly (Tasar Silk)  
D S Bhattacharjee & Sons, Ber-  
hampore, Murshidabad  
Dafferpu Silk Factory, Raghu-  
nathganj, P O, Murshidabad  
Kanarail Madan Gopal Saha,  
Chawk Bazar, Murshidabad  
Murshidabad Silk Industry, P O  
Khagria Murshidabad  
Murshidabad Silk Store, Jaganj,  
Murshidabad  
Pute Silk Cloth Bhandar, Bishnu-  
pur, Bankura  
R K Biswas & Bros Chauk  
Islampur P O, Murshidabad Dt  
B-11A Sarkar Lane, Cal  
S Lekhray & Co, Chowrasta, Dar-  
jeeling  
Sheekishen Priemsukh Malda  
Sree Azad Silk Cottage, P O  
Bishnupuri, Bankura

**BIHAR**

Bhagalpur Silk Stores, Sujaganj,  
Bhagalpur  
Silk Emporium, Sujaganj, Bhagal-  
pur City  
Suddha Reshma Khadi Bhandar,  
Nayabazar, Bhagalpur City

**BOMBAY CITY**

Abdul Gani Sharif & Sons, 151-157,  
Mahomedally Road Bombay  
Alliance Silk Mills, Kala Chowkie  
Road, Parel, Bombay

Ambalal Goverdhandas Shah &  
Co, Surya Mahal, Thakurdwar  
Corner, Gugaum, Bombay.

Arab Bewa Chundriwala, All  
Umer St, Milk Bazar, Mistri  
Moholla, Bombay

Babubhai Choonilal & Bros, Next  
to Swadeshi Market, Kalbadevi  
Road, Bombay

Chamanlal Zaverbhai Shah, Near  
Edward Cinema, Kalbadevi Rd,  
Bombay

Champaklal & Brothers, Sayer  
Bhuvan, 143, Princess Street,  
Bombay

Chhaganlal Ranchoddas Jariwala,  
Resham Bldg, Jackeria Musjid,  
Bombay

Dawood Haji Nasser & Co, Bha-  
rat Bhuvan, Kalbadevi Road,  
Bombay

Devchand Jadavji, New Silk Mar-  
ket, 493, Kalbadevi Rd, Bombay.

Dhanjee Mooljee, 32-36, Shamsett  
St, Bombay

Dulabhdas Manilal & Co, New  
Silk Bazar, Bomanji Master  
Road, near P O Kalbadevi,  
Bombay

Gaganlal Ramchand, 11, Dhanu-  
kar Bldg, Bomanji Master Road,  
Opp P O Kalbadevi, Bombay

H Mulchand, Sunder Chowk, Mul-  
ji Jetha Market, Bombay

Haji Tayab Salemahomed & Co,  
116-118 Jamli Moholla, Bapu  
Khote St, Bombay

Indian Silk Depot, 57, Krishna  
Gali, Swadeshi Market, Bombay.

Jamnadas Amarchand Gandhi, 24,  
New Silk Bazar, Opp Kalbadevi  
P O, Bombay

K Hassaram & Co, New Silk  
Bazar, Bombay

Karanna Bros, Ltd, 17-19, Boman-  
ji Master Road, Bombay

Kishinchand Chellaram, Centra  
Bldg No 1, Bomanji Master  
Road, Kalbadevi, Bombay

Kuvai Damodar Patel Building,  
74-76, Shaik Nemon St, Bom-  
bay

Madhavdas Raghunathdas & Co,  
172, Hornby Rd, Bombay

Always Use Renowned "SANKHA & PADMA" BRAND GENJEE  
D N. BOSE'S HOSIERY FACTORY, 36/1-A, Sarkar Lane, Calcutta.

Laloobhai Pitambar, New Silk Bazar, Bomanji Master Road, Kalbadevi, Bombay.

Muncheji H Kavarana & Co, Silk Bazar, Bomanji Master Road, Opp P O, Kalbadevi, Bombay

Mysore Products, 191, Princess St., Bombay

Mysore Silk Depot, Swadeshi Market, Kalbadevi, Bombay

N Abdulkadar & Co, Near Chauri Rd. Junction, 337, Grant Rd, Bombay.

Nagindas Fulchand Chinai, Chinai Bldg, 79, Masjid Bunder Road, Bombay

Rajhumal Brothers, New Silk Bazar, Kalbadevi, Bombay 2

Somnath Rupjidas Patel, 35, 3rd Bhorwada, Bhuleshwari, P O Box 2080, Bombay

Vithaldas Choonilal Jaiwala, 104-6, Bhuleshwari, Bombay

#### BOMBAY PRESIDENCY.

Ambaram Harkisandas, Mahidhar Kumbhaiseri, Surat

Balubhai Chhaganlal & Co, Hari-pura, Sukhediasheri, Surat

Basapa Gaugawati, P O Guled-gudd, Bijapur

Chimanlal Jeysinghar, Maneck Chowk, Ahmedabad.

Hairam & Co, Gopipura Vohra-wad, Surat B1 —Bombay, Karachi

V D Komkalmath, Shahapur, Belgaum

#### CALCUTTA.

Anubhai Mayabhai, 44, Buntolla St, Calcutta

B Motiam, B52, 53, A-29, 30, New Market, Calcutta

Bengal Home Industries Association, Willingdon House, 42, Chowringhee Rd, Calcutta

Bengal Silk Trading Co, 34, Lower Chitpore Road Calcutta

Bengal Stores Ltd. 8-A, Chowringhee Place, Calcutta

Bombay Silk Store, D71, New Market, Toys Range, Cal

C Mulchand A18 & A36, New Market, Calcutta

Chotumall & Co, A-5, Municipal Market, Calcutta

D Jethmal, 43, Ezia St, Cal

Dawoodbhai Daffarjee, 24, Pollock St, Calcutta

Dayaram & Co., G1-5, New Market, Calcutta Works at 1-1, Free School St, Calcutta

G T Khemlani & Co, A-44, 45, New Market, Calcutta

Indian Silk House, College St Market (Tower Block), Cal

Indian Silk Stores, 57-B, College St, Calcutta

Indo Burma Silk Trading Co, 34, Lower Chitpore Rd, Cal

Jethmall Dhalamall, 7-1, Lindsay St, Calcutta

Kamalalaya Ltd, College Street Market, Calcutta

Motiram & Co, F 64-65, New Market, Calcutta

Priya Gopal Bishoyi, 70, Khargraputty St, Calcutta

Rasik Lal Bishayee & Co, 225, Harrison Rd, Calcutta

S Lal Chand, A-38, New Market, Calcutta.

Taraknath Sashibhusan Halder, 46, Cross St, Calcutta

Tulsidas Goidhandass & Co, 7-1, Armenian St, Calcutta

#### CENTRAL INDIA.

B Deoti Lal Sons, Mhow

Moolchand & Sons, Mhow

#### CENTRAL PROVINCES.

M Chhagan Lal & Sons, Residency Rd, Nagpur

Shamrao Borikar, Jagnath Rd, Nagpur City

#### DELHI.

B Lalaram & Sons, Ramaswamy, New Delhi

B M Ahuja & Co., Chandni Chowk, Delhi B1 —Lahore, Ludhiana

Loke Nath & Co, Connaught Place, Delhi

Surat Silk Stores, Katra Nawab, Chandni Chowk, Delhi

#### INDIAN STATES

Abdul Rehman Khan & Sons, General Bazar, Doddapet, Mysore

Bhogilal Keshavlal & Co, Moivi,  
Kathliawai  
Chandham Bios, 115, Oxford St,  
Secunderabad, Deccan  
D P Krishnasa & Sons, Banga  
lore City  
Daulat Ram Sungai & Sons, 1st  
Bridge, Simagai, Kashmir  
H Rangaswamy, Manavalata-  
pet, Bangalore City  
Hyderabad State Industries, Hy-  
derabad, Deccan  
Kalabaiji Balaji Venkappa, 3-57,  
Mamulpet, Bangalore City  
Kewal Chand Mannal, Cloth Mar-  
ket, Bikaner  
Kode Esaisa, Santhipet, Banga-  
lore City, Mysore State  
S Dawood & Son, Main Bazar  
Rd, Bowringpet, Kolai  
Savaji Vijaya, Opp Jubilee Gar-  
den, Baroda  
Soni Brothers, Hari Singh High  
St, Simagai, Kashmir  
T Hassaiam, (Bombay Royal  
Silk Stores), Secunderabad  
Wakhaloo & Bios 3rd Bridge,  
Simagai, Kashmir

**KARACHI**

Bachumal Mulchand, Khairadar,  
Karachi

**MADRAS CITY**

C Paramandass & Sons, 16,  
Sukkmoodas St, P T, Madras  
Chellaiam Ghanchand, 45, Rattan  
Bazar Rd, P T, Madras  
K Hassaram & Co, 98, Godown  
St, Madras  
N C Baluswamy Iyer & Son,  
84, Nyniappa Naick St, Park  
Town, Madras  
R Payaneeandy Pillay & Sons,  
Palani House, Luckmudoss St,  
P T, Madras (Silk Piecegoods)

**MADRAS PRESIDENCY**

Bombay Stores, Big Bazar, Ti-  
chinopoly  
Erode Sitaram & Co, Ltd, Agri-  
haram St, Erode  
G Viswanatha Chettai, Dhara-  
puram, Coimbatore, S I  
K K. Venkatachalapathy Iyer,  
Brahmin Koli Street, Kumba-  
konam (Kora Silk)

Lakshmi Venkateswaraswami Silk  
Weaving Factory, Royadrug,  
Bellary  
Mayuri Malayya Garu, Vuppada,  
Pithapuram P O, Godavary  
New Silk Stores, Kailkal  
Pakki Jagannadharao Patnaik,  
Palkonda P O, Vizag Dt  
Pesala Subbarayudu & Co, Ped-  
dapuram, Godavary  
R C Mission Sericulture Depot,  
Vadakangulam, Tinnevely  
S V Venkatadhi Chetty, Rangiah  
Gownden St, Coimbatore  
South Indian Silks Ltd, Gudi-  
vatam, N Arcot  
T L V Krishna & Bios, Bazar  
Rd, Tiruchinopoly

**ORISSA**

A Kotesham Subudhy, Beham-  
puri P O, Ganjam  
Banshiam Ratan Ram Kesta,  
Bara Bazar, Sambalpur  
Dayasagai Bohidar, Swadeshi  
Bastialaya, Sambalpur  
Gupta & Co, Chicacole, Ganjam

**PUNJAB.**

Bandhis & Devi Bios Beham-  
puri, Ludhiana  
Bharat Industrial Company,  
Amritsar  
Gison Knitting Works, Ludhi-  
ana  
Indian Textile Co, Benares Art  
House, Simla  
Ludhiana Silk House, Basanta  
Mall, Bhara Mall, Main Bazar,  
P O Box 5, Ludhiana  
National Trading Co, Karta Ram  
St, Ludhiana  
Public Silk Stores, Ludhiana  
R H Mehta & Co, Moti Bazar,  
Palanpur Gujrat  
Tajmal Haganlal, Palanpur, Guj-  
rat  
**Wynson Silk & Hosiery  
Works, (Regd) Chaman St,  
Ludhiana**

**UNITED PROVINCES**

Adimoori Bhaskar & Co, Bena-  
res  
B Mohanlal & Co, 8, Aminabad  
Park, Lucknow

For full process of manufacture of phenyle. read **DISINFECTANTS & ANTISEPTICS** Re. 1/12. Industry Book Dept., Shambazar, Calcutta.

Benares House, Bishwanath Galli,  
Benares City  
Bhaiadwar & Co, Benares City  
D Jethmal & Sons, Astley Hall,  
Delia Dun  
G Khiamal & Co, 38, Aminabad  
Park, Lucknow.  
Girdhar Das Jagan Mohan Das,  
Phatak Shuklal Sahu, Benares  
Girdhardas Haridas, Raghunath  
Das, Phatak Sukhlal Sahu,  
Benares City  
Hazi Abdul Hakim & Co, 21,  
Parehauhi, Benares City  
Indian Stores, Gyanbapi Chowk,  
Benares City  
Indian Textile Co, Benares City  
Jaikrishna & Co, Bhat Ki Silk  
House, Benares City  
Jaman & Co, Pandi Howli,  
Benares City

Kaigha Sangh (Regd), Hardwai  
Liberty Stores, 41, Aminabad  
Park, Lucknow  
Lala Ram & Sons, Mussoorie  
Mohini Mohan Kanjilal & Bios,  
Biswanath Gali, Benares City.  
Moniram Harijwandas, Gaighat,  
Benares  
New Textile Co, 39-79, Chowk,  
Benares City  
P Kishin Chand's Silk Paradise,  
10, Aminabad Park, Lucknow.  
Pt Churan Lal & Sons, Baldeo  
Mandi, Meerut City  
Ram Lal & Bios, Huziatgunj,  
Lucknow  
Silk Pitamber Co, Benares City  
Thakuriprosad Jagadishpirosad  
Aiora, Siddheswari, Benares

## **SIZING MATERIAL DEALERS.**

### **BOMBAY.**

Corn Products Co (India) Ltd,  
Culimbhoy House, Waudby  
Road, Bombay B1 -15, Chitta-  
ranjan Ave, Calcutta  
National Trading Co, Hornby  
Rd, Fort, Bombay, Reid Rd,  
Ahmedabad P40 Mission Row  
Extension, Calcutta  
Pioneer Magnesia Works Ltd,  
Chartered Bank Bldg, Fort,  
Bombay  
Sizing Materials Co, Ltd Horn-  
by Road, Bombay Kapasia  
Bazar, Ahmedabad, Cawnpore;  
Coimbatore

### **BOMBAY PRESIDENCY.**

G Doctor & Co, Railwaypura,  
Ahmedabad  
Indo British Chemical Co, Kapa-  
sia Bazar, Ahmedabad

### **CALCUTTA**

East India Trading Co, 2,  
Church Lane, P O Box No  
487, Calcutta Tele' Add  
Eisex  
Kevmei Bagshawe & Co, Ltd,  
22 Strand Road, Calcutta  
Khaitan Sons & Co, 1, Commer-  
cial Bldgs, Chive St, Calcutta

### **UNITED PROVINCES**

Pearl Products Co, Ltd, Cawn-  
pore (Starch and Dextine)

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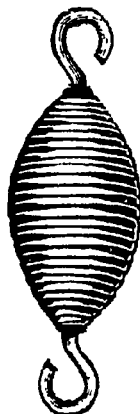
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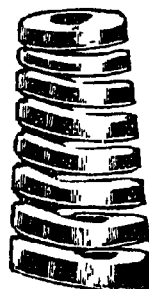
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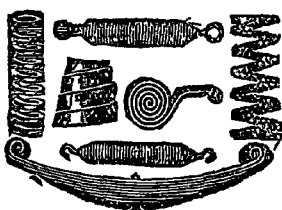
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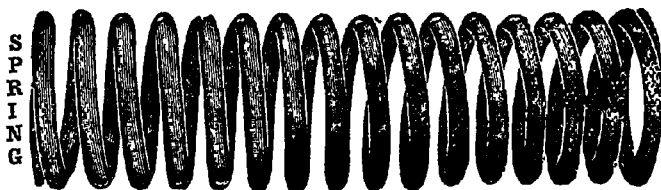
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22, Canning St., Calcutta

Rajmahal Quartz-Sand & Kaolin  
Co., 31, Jackson Lane, Calcutta  
S I Works Quarry, Timba Road,  
Baroda  
S N Bros., 1, Gourdas Basak  
St., Baia Bazar, Calcutta  
Thakur & Sons, Chunar, Dist  
Mirzapur  
United Stone Co., P306, Jatin  
Das Road, Calcutta  
Wah Stone & Lime Quarry Ltd.,  
Ravi Road, Lahore

**STONEWARE DEALERS.**

Charan Das & Sons, Chowk,  
Chunar  
Charu Charan Dutt, Rajpur,  
Sonarpur, 24-Paisa  
Cochin Government Stoneware  
Works, Chalakudi, Cochin  
Hanuman Prosad & Co., Chowk,  
Chunar.  
Harekrishna Mahapatra, Vill  
Champu, P O Soru, Balasore

Jasobanta Bhola Vill Angula,  
P O & Rly Stn Soru, Bala-  
sore  
Mirzapur Stone & Trading Co.,  
Mirzapur  
Mysoore Stoneware Pipes & Potte-  
ries Ltd., Asiatic Bldgs., Banga-  
lore City  
Nanji Vilji, Poibandar  
Radhanath Das, 250, Kalighat  
Rd., Calcutta (Stone utensils)  
Tulsee & Co., Chunar

**STOVE MANUFACTURERS.**

Bengal Chemical & Pharmaceuti-  
cal Works, 164, Manicktala  
Main Road, Calcutta  
Bombay Stove & Hardware  
Depot, T G Shah's Building,  
Pydhownie, Bombay (Dhs)  
Chemical Industries & Engineer-  
ing Co., 1 Ramlal Agarwala  
Lane, Calcutta

Dhar & Sons, 52/2, College St.,  
Calcutta  
Lalji Kacharami & Sons, Anjar,  
Patni Bazar, Cuttack  
Shilpa-Peeth Limited, P O.  
Alambazar, Calcutta  
**T. E. Thomson & Co. Ltd.,**  
9, Esplanade East, Calcutta Fac-  
tory Di. Satya Road, Kiddei-  
pore

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**STRAW BOARD MANUFACTURERS.**

Bharat Strawboard Co, 55, All Chambers, Tamarind Lane, Fort, Bombay

India Paper & Board Mills, 71, Satgachi Rd, Dum Dum, Near Calcutta

Jashawant Straw Board Mills, Ltd, Meerut

Pioneer Paper & Pulp Ltd, 14, Clive St, Calcutta Factory 14, Dum Dum Rd, Calcutta

R Gulamhusein & Bros, Parsi-gali, Mirza St, Bombay 3

Straw Board Mfg Co, Ltd, Ewing Road, Lahore

Straw Board Mfg Co, Saharan-pur

Straw Products Ltd, Chola Road, Bhopal

**STRAW BOARD MERCHANTS.**

(Also see Paste & Straw Board Manufacturers)

Abbasbhai Kadarbhai, 35-39, Satal Chawl, Bombay

Bengal Cardboard Industries & Printers Ltd, 165, Cornwallis Street, Calcutta

Card Board Industries, 63, Bow-bazar St, Calcutta

Hashim & Bros, 14-D & E Nala Road, Bangalore (Box)

Industrial Card Board Box Co, 26, Colootola Street, Calcutta

R Gulamhusein & Bros, Parsi Gali, Mirza St, Bombay 3

S K Mukherjee, 11/1, Lower Chitpur Road, Calcutta

Universal Card Board Box Factory, 54 Ezra St Calcutta

**SUGAR MERCHANTS.**

(Also see Sugar Mills)

**ASSAM**

Umaduth Hanumanbux Soibhog, Kamrup

**BENGAL**

Bepin Behari Lal Mohan Saha Jamalpur, Mymensingh

Bindubasini Satishchandra Sudhansumohan Saha Jamalpur, Mymensingh

Bishambhari Malakai, Sheikpur Town, Mymensingh

Bishnupada Chowdhury, Regina-gai, Dadpur, Muishidabad

Chimnam Chouhatmull Bihani, Sheikpur Town, Mymensingh

Chunilal Tilakchand, Islampur, Mymensingh

Ganeshchandria Kartikchandria Roy, Chhotabazar, Mymensingh

Gopilal Chandanmull, Chhotabazar, Mymensingh

Hardwai Lal Ganpat Rai Kali-ganj, Dacca

Hiralal Ram Kumar Toshniwal, Jaria Bazar, Mymensingh

Jadabchandria Kailash Chandria Roy, Ramnagar, Sarisabail, Mymensingh

Jatindramohan Jnanendia Mohan Roy Chowdhury, Jamalpur, Mymensingh

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Mills Dum Dum Road, Calcutta

Phone — Cal 6587

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Basti Sugar Mills Co Ltd, 3,  
Montgomery Road, Lahore  
Gurunanak Sugar Agency, Pari-  
mahal, Inside Shahalmi Gate,  
Lahore  
Kahanchand Ram Rakha, Sha-  
halmi Gate, Lahore  
Pt Pyarelal Sharma, 13-12, Lunia  
Mandi, Lahore Cantt  
Sunder Lal Kerit Chand, Lahore

**MADRAS.**

Madias Sugars Ltd, 6, Woods  
Road (Mount Road), Madras  
Parry & Co, Madias  
Ranganatham & Co, Ltd, Arme-  
nian St, Madias

**MADRAS PRESIDENCY.**

A R S Thumeninatha Nadar  
Avl, Tuticorin, SI  
Haji Jamal Noor Mohammed,  
Vizianagiam  
M A Raman Chettiar Tanjore  
M G Vittal Rao, General Mer-  
chant, Ambur, N A Dt  
M L K M L Abdul Salem Sa-  
hib & Co, Kaidakara Street,  
Kumbakonam, Tanjore,  
M Puishottam Pai, Bunder, Man-  
galoie  
M S Puglagun Nadar Sons, Din-  
digul  
O A Ramalinga Mudaliar, Gene-  
ral Merchant, Vellore, N A  
Dt  
P T Maigabondur Chettivar, Vel-  
lore  
S Ramaswamy Aiyer & P S  
Ram Chandra Aiyer, Sugar  
Merchants, Shevapat, Salem

**N W. F. PROVINCE**

Gian Chand Guman Mal, Sugar  
Merchants, Maidan  
L Vidya Sagar, Hazara Metal  
Mart, Abbottabad  
Ram Lal Kapoor & Bros, Prince  
Road, Quetta  
S Acharya Singh Hora, Hora  
Bldgs, Peshawar

**ORISSA.**

Haji Abdul Rehman Haji Abdulla,  
Berhampur, Ganjam

**PUNJAB.**

Bahalmam Puri & Sons, Railway  
Road, Kasur  
Balabux Bajranglal, Katia Ahlu-  
wal, Amritsar  
Belnam Behari Lal, Krishna Mar-  
ket, Amritsar  
Bholanath Shrivdatt Rai, Gurgaon  
Chetram Suri & Sons, Ganjbazar,  
Rawalpindi  
Chiranj Lal Ramji Das, Bhiwani  
Chopia Bros, Kanak Mandi,  
Rawalpindi  
Daya Mal Amar Nath, Gujran-  
wala  
Devi Dittamal Mulkhraj, Bazar  
Gandanwala, Amritsar  
Dewachand Chunilal, Kanak-  
mandi, Rawalpindi  
Gondi Ram Chaudhri Ram, Dhuri,  
Barnala  
Hansraj Ghulati, Sugar Broker.  
Ferozepore City  
Hariram Tara Chand Sabharwal,  
Namakmandi, Amritsar.  
Hira Singh Gulab Singh, Lyall-  
puri  
Kastuimal Kantoie & Co, Fe-  
rozepore  
L Chunilal, Kanakmandi, Sialkot  
City  
L Prabhdiyal, C/o Tandon Bros.  
Amritsar  
Radha Krishan Karam Narain  
Multan City  
Ram Chand Goverdhan Das  
Tobatek Singh, Lyallpuri  
Ram Das Saugat Das, Bagh Jhan-  
da Singh, Amritsar  
Rishi Dev Sondhi & Co, Fenton  
ganj, Jullundur City  
S Jagat Singh, C/o Jagat Singh  
Kishan Singh, Bazar Gandan-  
wala, Amritsar  
Sewaram Dyaldas, Fentogunj, Jul-  
lundur City  
Vij Bhan Om Parkash Ambala  
Cantt

**SIND**

Assam Das P Gunwani Mi  
Hriabad Quarters Mipurkhas  
B R Herman & Mohatta Ltd  
Near Panchayati Tahallah, Suk-  
kur  
Bhai Kodumal Jagoomal, Sugar  
Broker, Nawabshah

**UNITED PROVINCES.**

Abdul Karim Habib, Shutarkhana, Cawnpore  
 Acnambhey Lal Gendalal, Fairukhabad  
 Adam Haji Peei Mohd Essack Dalmandi, Cawnpore  
 Amritlal Paiekh & Co, Cawnpore  
 Anand Ram Pura Mal, Cawnpore  
 B Mahadeo Pd. Hanumanganj, Balia Town  
 B Puranmuji, Balia Town  
 Babulal Rukmanand, Gurhate, Hathras  
 Badri Dass Pearylall, Collector-gunge, Cawnpore  
 Baijnath Pd Raghunath Pd, P O Barhaj, Gorakhpur Dt B — Ghajipur, U P (Sugar and Sugar Molasses)  
 Baijnath Tilokchand, New Mandi, Muzaffarnagar  
 Behari Lal Dwarka Das, New Mandi, Muzaffarnagar  
 Bhagawan Das Shiv Lal, Muzaffarnagar  
 Bhawani Das & Co. Muzaffarnagar  
 Bhawani Sahai Saligram, New Mandi, Muzaffarnagar  
 Bhushanlal Rameshwai Lal, Grain Market, Roorkee  
 Cawnpore Steel Co, Ltd, Cawnpore  
 Chandulal Ghanashyamdas, New Mandi, Muzaffarnagar  
 Charan & Co. Nayaganj, Cawnpore  
 Chellaram Uttamchand, Muzaffarnagar  
 Daurala Sugar Works, New Mandi, Muzaffarnagar  
 Daya Ram Ramchand, Saharanpur  
 Diwanchand & Co, Premputi, Meerut  
 Diwanchand & Sons, Muzaffarnagar  
 Faku Chand Shiv Nandan, Moh Nathu Ram, Kasganj  
 Gaya Prasad Agarwal, Shakkar Patti, Cawnpore  
 Goormukhari Radha Krishna, Collector-ganj, Cawnpore  
 Gursarandass Kapoor & Sons, Collector-ganj, Cawnpore

Hanuman Das, Narain Dass, Showk, Allahabad  
 Harakchand Hariram, General-ganj, Cawnpore  
 Hardayalji Nevatia, Nayaganj, Cawnpore  
 Haridev Bishandev, Sugar Brokers, Dhankutti, Cawnpore  
 Hossein Kasem Dada, Dalmandi, Cawnpore  
 Indrachand Hariram, General-ganj, Cawnpore  
 Ishwar Pd Banshidhor, Etah  
 Jagannath Sahu Mahadeo Pd, Nawabganj, Gazipur  
 Jawaharlal Narsinghadas, New Mandi, Muzaffarnagar  
 Kamalpal Motilal, Chatai Mohal, Cawnpore  
 Kamta Prasad Kanhaiyalal Sugar Agent, Sitapur  
 Kashinath Kakkai & Sons, Rani Mandi, Allahabad  
 Kashiram Kanhaiyalal, Nayaganj, Cawnpore  
 Khemchand Naomal, Muzaffarnagar  
 Kilachand Devchand & Co, Ltd, Nayaganj, Cawnpore  
 Kishanlal Babu Lal, Moh Nathu Ram, Kasganj  
 Laxmandial & Co, Alamgirganj, Bareilly  
 Mahabub Prasad Hanumandas, Maunathbhanjan, Azamgarh Dt  
 Mathura Pd Chhannulal, Nitganja, Farrukhabad  
 Mohon Ram Dungroo Ram, Nawabganj, Gazipur  
 Moolchand Tikandas, Muzaffarnagar  
 Moosa Haji Hassan, Canal Road, Sutarkhana, Cawnpore  
 Munshi Harnam Singh, Simbhaoli, P O. Baksai, District Meerut  
 Mukta Pershad Jagdish Saran, Sugar Agents, Chandausi  
 Multani Hukumchand Narsing Das, New Mandi, Muzaffarnagar  
 Musaddilal Atmaram, New Mandi, Muzaffarnagar  
 Musadilal Ratanlal, Sadar Bazar, Meerut  
 M K M G Sugar Mills Ltd, Dhankutti, Cawnpore

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Madho Das Sua Lal, Sadar Bazar, Meerut	S D Mohanlal, New Ganeshganj, Lucknow
Madhuridas Naraindas, Mirganj, Allahabad	Sadhuram Chuhardas, Kaseiganj, Meerut
Mata Din Khaitan, Collectorganj, Cawnpore	Sahgal Bros, Nekpur, Bareilly
Maya Ram Durga Prasad, New Mandi, Muzaffarnagar	Sahodar Chand Nainsingh Bhan, Sadhwa, Farrukhabad
Minoramal Kashuam, Sadar Bazar, Meerut	Salzemen & Co, 95, Zero Road, Allahabad
Mohar Singh Das Narsingh Das, Sadar Bazar, Meerut	Seth Amarchand Maheshwari, Collectorganj, Cawnpore
Om Prakash Harinath, Kaiserganj, Meerut	Seth Dharamdas Kanhaiyalal, New Mandi, Muzaffarnagar
Paara Singh Balkishan, Station Road, Cawnpore	Shankerdas Dugaprasad, Sadar Bazar, Meerut
Pannalal Janki Prasad, Etah	Shivnand Verma Lalchand, Old Generalganj, Cawnpore
Nageimal Durga Prasad, Cawnpore	Shiv Narain Gahi Ram, Muzaffarnagar
Najampeishad Soorajbhan, Belanganj, Agra	Shvam Sunder Moolchand, Naya-ganj, Cawnpore
Pokaimal Madanlal, Modinagar, Begumabad	Singhal Bros, Alamganj, Bareilly
R B Seth Banwarilal Bhargava, Cawnpore	Sugar Selling Corporation, Generalganj, Cawnpore
R C Gupta, C/o Sugar Traders Ltd, Muzaffarnagar.	Suaimal Harinam, Collectorganj, Cawnpore
Raghunandan Ram Ram Shanker Prasad, Bhatni, Gorakhpore	Suaimal Sagaimal C/o Suaimal Harinam, Collectorganj, Cawnpore
Ramanlal Buldeo Dass, Collectorganj, Cawnpore	Tandon Bros, New Mandi, Muzaffarnagar
Ramkunwar Jawala Peishad, Gurhaha, Hathras	Unner Doab Sugar Mills Ltd, 93-B, New Mandi, Muzaffarnagar
Ramlal Baldev Das, Collectorganj, Cawnpore.	
Ramlal Hulas Rai, Mohalla Nawab, Kasganj	

## SUGAR MILLS.

### BENGAL

Bagda Sugar Mills Ltd, Bagda, Govindaganj, Rangpur.	Kotchandpur Sugar Works, P O Kotchandpur, Jessore Dt
Bandhab Sugar Mills Ltd, Narayanaganj	North Bengal Sugar Mills Co, Ltd, Gopalpur, Rajshahi
Carew & Co, Ltd, Daisana, Nadia	Roluxmi Sugar Mills, Maitra Bagan, Basirhat, 24-Parganas
Dayamayee Jayanti Sugar Mills Ltd, Kishoreganj Office.	Ramnugger Cane & Sugar Co, Ltd, Plassey P O, Nadia
Hindusthan Bldgs, 29, Hogg Street, Calcutta	Setabganj Sugar Mills, Setabganj, Dinapur
Desh Bandhu Sugar Mills Ltd, 58, Patuatuli, Dacca	Shikarpur Sugar Mills Shikarpur, P O Balacoba, Jalpaiguri

Shree Radha Krishna Sugar Mills Ltd, Beldanga, Murshidabad  
H O 138, Harrison Road, Cal

### BIHAR

**Bharat Sugar Mills Ltd**, Sidhwa-  
ha, Saran  
Bihar Sugar Works, Pachukhi,  
Saran  
Bikramganj Sugar Mills, Ltd,  
Bikramganj, Shahabad  
Cawnpore Sugar Works, Ltd,  
Marhowrah, Saran  
Champaran Sugar Co., Baracha-  
kia, Champaran  
Champaran Sugar Co Ltd., Chan-  
patia, Champaran  
Dumraon Raj Sugar Factory, Bik-  
ramganj, Shahabad  
Ganga Deshi Sugar Factory Ltd,  
P O Buxar Gajadharganj  
Gaya Sugar Mills Ltd, Guraru  
Mills, P O, Gaya Dt  
Ghosi Sugar Mills, P O Ghosi,  
Gaya  
Harinagar Sugar Mills Ltd,  
Ramnagar, Champaran  
Indian Sugar Works, Ltd, Siwan,  
Saran  
Japaha Sugar Factory, Japaha,  
Muzaffarpur  
Lohat Sugar Works of Darbhanga  
Sugar Co., Ltd. Lohat, Dar-  
bhanga  
M P Sugar Mills, Majhawalias,  
Champaran  
Maharajganj Sugar Co Ltd,  
Maharajganj, Champaran  
Marhowrah Sugar Factory, of  
Cawnpore Sugar Works, Ltd,  
Maharajganj, Champaran  
Matangini Sugar & Dal Mill,  
P O Hem-kunja, Purnea Pro  
Dinesh Chandra Roy  
Motilal Padampat Sugar Mills Co.,  
Ltd, Majhawalias, Champaran  
Motipuri Sugar Works, Motipur,  
Muzaffarpur  
New India Sugar Mills Ltd,  
Hasanpur Road, P O Hasan-  
pur Sugar Mills, Darbhanga  
New Savan Sugar & Gui Refining  
Co., Ltd, Savan, Saran  
New Swadeshi Sugar Mills Ltd,  
Narkataganj, Champaran  
Patna Sugar Mills, Khagaul,  
Patna

Popular Sugar Co., Barham  
Pursat Sugar Co., Ltd.  
Champaran  
Rohtas Industries Ltd, P O.  
Dalmianagar, Shahabad  
Ryam Sugar Co., Ltd, Ryam Fac-  
tory P O, Darbhanga  
S K G Sugar Ltd, Hathua, P O,  
Mirganj, Saran  
Sagauli Sugar Factory, Sagauli,  
Champaran  
Sakini Sugar Mills, Sakini, Dar-  
bhanga  
Samastipur Central Sugar Co.,  
Ltd, Samastipur, Darbhanga  
Sasa Musa Sugar Factory, Sasa  
Musa, Saran  
Semapuri Sugar Co., Ltd, Sema-  
pur, Purnea  
Shree Hanuman Sugar Mills Ltd,  
Motihari, Champaran  
Shree Krishna Gyanoday Sugar  
Ltd, P O Mirganj, B & N W  
Rly  
Shree Lakshmi Narayan Sugar  
Works, Nimali, Bhagalpur  
Sitalpur Sugar Works, Ltd, Sital-  
pur, Saran  
Siwan Desh Sugar Factory,  
Siwan Saran  
South Behai Sugar Mill Ltd,  
Mills —Bihta, H O Arrah  
Sugauli Sugar Works Ltd, Sugau-  
li, Champaran  
Upper Doab Sugar Mills Ltd,  
Shamli, Muzaffarpur  
Vishnu Sugar Mills Ltd, P.O.  
Vishnu Sugar Mills, (Saran)

### BOMBAY CITY

Bharat Soft Sugar Factory, Nar-  
sing Dairy, near Dongri Jail,  
Bombay  
Godavari Sugar Mills, Ltd, Gresh-  
am Bldg, Mahatma Gandhi  
Road, Fort, Bombay

### BOMBAY PRESIDENCY.

Belapur Co., Ltd, Haigaon, Ah-  
mednagar  
Belvandi Sugar Farm Ltd, P O  
Belvandi Sugar Farm, Dist Ah-  
mednagar, (G I P Ry)  
Brihan Moharashtra Sugar Syndi-  
cate Ltd, Boigaon, Mahaling,  
Sholapur



Godavari Sugar Mills Ltd, at  
Bharat Wadi, P O Sakarvadi,  
Dt Ahmednagar.

Kalamb Sugar Works, Kalamb,  
Via Baramati, Poona

Kolhapur Sugar Mills, Kolhapur  
Maharashtra Sugar Mills Ltd,  
Belapur Road, Ahmednagar.

Marsland Price & Co, Ltd,  
Poona

Phalton Sugar Works, Pimpal-  
wadi, Satara.

Ravalgaon Sugar Faim Ltd, Ra-  
valgaon, Nisik

Saswad Mali Sugar Factory Ltd,  
Akluj, Sholapur

### **INDIA.**

All India Sugar Mills Ltd., 1,  
British Indian St, Calcutta

Cawnpore Sugar Works Ltd,  
Spirit Warehouse, Sealdah, Cal-  
cutta

Diamond Sugar Mills Ltd, 4E,  
Dalhousie Square, Stephen  
House, Calcutta

Ganesh Sugar Mill Ltd, P 23,  
Vevekananda Rd, Calcutta

Shree Hanuman Sugar Mills Ltd,  
178, Harrison Road, Calcutta

### **INDIAN STATES**

Gandevi Sugar Works & Distillery  
Co, Ltd, Gandevi, Baroda (G  
B S Ry).

Hajee Shakoor Sugar Works, P O  
Kailashahar, Tripura State.

Jagatjit Sugar Mills Co, Ltd,  
Phagwara, Kapurthala State

Jaora Sugar Mills, Jaora, Jaora  
State

Kolhapur Sugar Mills Ltd,  
Shahupuri, Kolhapur

Mewar Sugar Mills Ltd, Bhupal-  
sagar, (Udaipur State), Mewar  
State Railway.

Mysore Sugar Co, Ltd, Mandya,  
Mysore State, H O Bangalore

Nizam Sugar Factory Ltd, Abid  
Road, Hyderabad Factory —  
Bodhan

Scindia Sugar Mills Ltd, Dabra,  
Gwalior

Sri Lakshmi Narayan Sugar  
Works, Harpalpur, Bundel-  
khand

Travancore Sugar & Chen-  
cal Ltd, Thuckalay, Triva-  
dium Travancore State

### **KARACHI**

Pioneer Sind Sugar Mills Co  
Ltd, Queens Rd, Wood Stree  
Karachi Factory — Mahatt  
nagar, Sind

### **LAHORE**

Basti Sugar Mills Co, Ltd,  
Montgomery Road, Lahore

### **MADRAS PRESIDENCY**

Al Vr St Sugar Mills & Ne-  
Distillery, Tachanallui, Tinn-  
velly.

Coimbatore Lakshmi Sugar Mil-  
Ltd, Podanpur, S India

Deccan Sugar & Abkari Co, Ltd  
Samalkota, Godavari

East India Distillery & Sugar  
Factories Ltd, Nellikuppam, S  
Arcot

Etikoppaka Sugar Factory, Et-  
koppaka, Vizagapatam

Hospet Sugar Mills Ltd, Hospe-  
Bellary

India Sugars & Refineries Ltd  
Hospet, Bellary Dt

Munugappa Sugar Co, Ltd, Mai-  
patti, N Arcot

Sree Ramkrishna Sugar Mills  
Kirlampudi, E Godavari

Sri Rama Sugar Mills Ltd  
Bobbili, Vizagapatam

Southern India Sugar Co, Ltd  
Pugalur, Trichinopoly

T A Rm Lakshmi Sugar Mills  
Near Laksmanatope, Tinnevel-  
ly

Vizagapatam Sugars & Refiner-  
Ltd, P O Tummapala, Via An-  
kapalle, Vizagapatam Dt

Vuyyuru Co operative Agricultu-  
al Industrial & Credit Societ-  
Ltd, Vuyyuru, Kistna Dt

### **N W. F. PROVINCE**

Frontier Sugar Mills & Distiller-  
Limited, Takhti-Bai Mardan

### **ORISSA**

Aska Sugar Works, Aska, Gan-  
jam

Jevpur Sugar Co, Ltd, Rayagha-  
da, Koraput

**PUNJAB**

Amritsar Sugar Mills Co, Ltd,  
Amritsar  
Arya Sugar Mills, Dinanagar,  
Gurdaspur  
Bhalwal Sugar Mills, Ltd,  
Bhalwal, Shahpur  
Gujranwala Sugar Mills Ltd,  
Rahwali, Gujranwala  
Lakshmi Sugar & Oil Mills Ltd,  
Chatiwind Gate, Amritsar  
Phuleiwan, Sargodha.  
Punjab National Sugar Mills Ltd,  
Lyallpur  
Punjab Sugar Corporation Ltd,  
Sonepat, Rohtak  
Saraswati Sugar Mills, P O  
Abdullapur, Ambala  
Shree Guru Arjundev Sugar Mills,  
Butari, Amritsar

**UNITED PROVINCES**

Ana Sugar Factory, P O Ana  
Estate, Khamaria, Kheri  
Ajudhia Sugar Mills, P O Aju-  
dhia, Moradabad  
Amritsar Sugar Mills Co, Ltd,  
Rohanakalam, P O Rohana  
Mills, Muzaffarnagar.  
Amroha Sugar Factory, Amroha,  
Dist Moradabad  
Bajrath Balmukund Sugar Fac-  
tory, Lalbankey St., Cawnpore  
Bahampur Sugar Co, Ltd, Tulsi-  
pur Gonda  
Bareilly Sugar Works, Bareilly  
**Barhni Sugar Mills.** Barhni  
B & N W Ry U P  
Basti Sugar Mills Co, Ltd, Basti  
Bhogpur Sugar Works, Bhogpur,  
Bijnor  
Buihwal Sugar Mills Co, Ltd,  
Buihwal, Barabanki  
Campieganj Sugar Mills Ltd,  
Campieganj, Gorakhpur  
Cawnpore Sugar Mills Ltd,  
Coopeiganje, Cawnpore  
Cawnpore Sugar Works Ltd,  
Gau, Bazar, Gorakhpur  
**Daurala Sugar Works,**  
Daurala, Meerut  
Delhi Sugar Mills Ltd, Mohud-  
dimpur, Muzaffarnagar  
Deoria Sugar Mills Ltd, Deoria,  
Gorakhpur

Dhampur Sugar Mills Ltd, Dham-  
pur, Bijnor  
Diamond Sugar Mills Ltd, Pip-  
raich, Gorakhpur  
Diwan Sugar Mills, Sakhoti  
Tanda, Dt Meerut  
Experimental Sugar Factory,  
Nawabganj, Cawnpore  
Ganesh Sugar Mills, Ltd, Pharen-  
da, B & N W Ry, Dt Gorakh-  
pur  
Ganga Sugar Corporation Ltd,  
Deoband, Saharanpur  
Ganga Sugar Works, Balawali,  
Bijnor  
Gulzarimal Ramchand Sugar  
Mills, Aishbagh, Lucknow  
H R Sugar Factory, Nekpur,  
Bareilly  
Hanmat Sugar Mills, Deoria, Go-  
rakhpur  
Hindusthan Sugar Mills, Ltd,  
Golagokarannath, Kheri  
Inchiam Sugar Factory, Meerut  
Indra Sugar Works, Meerut  
Ishwari Khetan Sugar Mills Ltd,  
Lakshmiganj, Gorakhpur  
Jagdish Sugar Mills Ltd, Rly  
Stn Kathkuiyan, P O Padra-  
na, Gorakhpur Dt  
Jaswant Sugar Mills, Mahiana,  
Meerut  
Jawalapur Sugar Factory, Jawa-  
lapur, Saharanpur  
Kamlapat Motilal Gutaria Sugar  
Mills, Chatai Mohal, Cawnpore  
Kesai Sugar Works, Ltd, 143,  
Civil Lanes, Bareilly  
Khandke Sugar Mills Ltd. Ba-  
heni, Bareilly  
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C E Lumsden Egan, Mis & Co, Lumsden Egan, Kil-Kotagiri, Nilgiris	Karakundra Factory, Valparai, Coimbatore
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Kanara B — Mazagaon, Bom-  
bay

Bahadur Tile Works, Jeppo,  
Mangalore, S Kanara

Bellary Brick & Tile Works,  
Bellary

Canara Tile Works, Bolai, Man-  
galore, S Kanara

Commonwealth Ceramic Factory,  
Jeppo, Mangalore, S Kanara

Commonwealth Tile Works, Jep-  
po, Mangalore, S Kanara

Commonwealth Trust Ltd, Cali-  
cut Factories at Olavakkot,  
Codacal, Feroke, Puthiyala,  
Jeppo, Kudoli & Malpe

Concrete Works, Mangalore, S  
Kanara (Flooring Tiles)

Coronation Tile Works, Manga-  
lore, S Kanara

Feroke Tile Works, Feroke, Ma-  
labar

Hamediah Tile Works, Bolai,  
Mangalore, S Kanara

Highland Tile Works, Bolai, Man-  
galore, S Kanara

Imperial Tile Works, Bolai, Man-  
galore, S Kanara

Indian Humè Pipe Co., Ltd,  
Kovvur, Godavari (West)

Indian National Tile Works,  
Bolai, Mangalore, S Kanara

Jeppo Tile Works, Jeppo, Man-  
galore, S Kanara

Katheru Blackstone Powder  
Works, Rajahmundry

Keral Tileery, Feroke, Malabar

M Rebello & Sons, Mangalore

Malabar Tile Works, Feroke,  
Malabar

Mangalore Tile Co, Bolai, Man-  
galore, S Kanara

P F B Albuquerque & Sons,  
Mangalore, S Kanara

Pioneer Tile Works, Bolai, Man-  
galore, Kanara South.

R B C D, Andrade Bunder,  
Mangalore, S Kanara

Reg & Sons, Hoige Bazar,  
Bolai, Mangalore, S Kanara

Shorianur Co, Ltd, Shorianur, S  
Malabar

Sri Mugian Tile Company Ltd,  
Irisampalayam, Pondicherry

Standard Tile & Clay Works,  
Ltd, Feroke, S Malabar

Star Tile Works Ltd, P O Kallai,  
Malabar

Sunkais' Tile Works Ltd, Ku-  
droli, Mangalore, S Kanara.

Surya Tile Works, Vergeswarapu-  
lam, Godavari (West)

Taj Tile Works, Bolai, Mangalore

Tanjore Tile Works, Tanjore

Tumkur Brick & Tile Works,  
Tumkur

Union Tile Works, Kudoli Man-  
galore, S. Kanara

**UNITED PROVINCES**

Bind & Co, Civil Lines, Cawnpore

Ford & McDonald Ltd, Civil  
Lines, Cawnpore

J Frizzoni & Co, Civil Lines,  
Cawnpore

Nigam & Co, Kalpi Rd, Cawn-  
pore

Raval & Co, Mall Rd, Cawnpore

**TIMBER MERCHANTS.****ASSAM.**

Assam Bengal Timber Depot,  
Gauhati (Also Furniture)

Assam Timber & Stores Ltd,  
Gauhati

Banerjee & Co, Gauhati

Eastern Traders & Co, Gauhati

Himatsingka Timber Ltd, Gau-  
hati (Railway Sleeper)

Indradeo Singh, Tipkai, Goalpara

Jitbahadur Suba, Tipkai, Goalpara  
 Kamakshya Timber Co, Gauhati  
 Sagarmall Rankissen, Rupshi, Goalpara  
 Surma Valley Saw Mills, Bhanga Bazar, Sylhet  
 Upendia Chandia Paul, B A, Badarpurghat, Dt Sylhet

**BENGAL**

D Mullick & Sons, Panchanan-tala Rd, Howrah  
 Domai Timber Trading Co, Ltd, Domar  
 East India Timber Co, Timber Yard, Shalimar, Howrah  
 G C Dey & Co, Raja Bhat Khawa, Jalpaiguri  
 Government Timber Depot & Saw Mill, Siliguri, Darjeeling  
 Haranath Chakraborty, Raja Bhat Khawa, Damanpuri, Jalpaiguri  
 Kamalbasini Debi, Katwa, Baidwan  
 Laxmi Narayan Saw Mill, Feinghee Bazar Road, Chittagong  
 M Roy, Raja Bhat Khawa, Jalpaiguri  
 Nityagopal Das Mullickpuri, Jagannathpuri, Malda  
 Narsingh Dass Addy Machooabazar Ghat, Chinsurah, Hooghly  
 Rajendra Lal Sett, Gudri Bazar, Cooch Behar  
 Sahadeo Singh, Siliguri, Darjeeling  
 Susanta Kumar Choudhury, Andalkilla Chittagong  
 Timpeia Timber Co, Gangchari, Comilla

**BIHAR**

Punshotamdas Mangaldas, P O Barajamda, Singhbhum

**BOMBAY CITY**

Abdul Ganj Abdul Latif 99, Koliwada, Sewree, Bombay  
 Abdulqani Soomei Bamboowala 33, Dontad St, Khadak, Bombay  
 Abdulhusen Mohamedali & Sons, Opp Reay Road Station 154 Tank Bunde, Mazagaon, Bombay

Aboobaker Mahomed Chhapia & Co, Islami Bazar, 7, Victoria Rd, Byculla, Bombay

Ahmed Dada & Bros, 80, Pinjapole Road, New Kazi Moholla, Bombay

Ahmed Noor Mohamed Choonawala, Ghodbunder Rd, Andheri, Bombay

Almahomed Ahmed & Co, 55, Dontad St, Khadak, Bombay

Bejanjee Kerbadjee & Sons, Victoria Road, Tank Bunde, Bombay

Bharat Timber Mart, Jambli Moholla, Bombay

Bombay Timber Importing & Landing Co, 148, Middle Colaba, Bombay

Chotani Osman & Co, 57, Apollo St, Fort, Bombay

D Shambhulal & Co, Opp Masina Hospital, Victoria Road, Byculla, Bombay

Darvesh & Co, 85A, Victoria Rd, Mazagaon, Bombay

Dayabhoy Ameisee, Mustafa Bazar, Byculla, Bombay

Dossaji Abdulhusein & Co, Opp Reay Road Station, Tank Bunde, Bombay

Ebrahim Dawood Kazi 59, Victoria Road, Islami Bazar, Bombay

F K Body & Sons, Reay Road, Bombay

Fatemohomed Osman Parekh & Co, 77, Victoria Road, Byculla, Bombay

Gani Bros, Victoria Road, Opp Masina Hospital, Bombay

Grand Wood Works & Saw Mill, Connaught Cross Road, Ghorupdeo Bombay 10

Gulamhusen Meherally & Co, Ghorupdeo, Connaught Road, Bombay

Jakaria Dawood & Co, 39, Dontad St, Khadak Mandvi, Bombay

Khan Bahadur S R Mody, 19 Colaba Chambers, Colaba Rd, Colaba, Bombay (Timber Merchants & Importers)

Kheishedu F Dalal Tank Bunde, Mazagaon, Bombay

Want to Prosper in Business Read **HOW TO DO BUSINESS** Re 1/1.  
**INDUSTRY BOOK DEPT**, Shambazar, Calcutta.

M Amratlal & Co, Tank Bunder,  
Reay Rd, Bombay.  
Mastoo Ramzan, Victoria Road.  
Byculla, Bombay.  
Millar's Timber & Trading Co,  
Ltd, Victoria House, Victoria  
Rd, Bombay.  
Shastiker & Co, Chumna Butcher  
St, Bombay  
Timber Trading Co, Station Rd.  
Thana, Bombay.

### BOMBAY PRESIDENCY.

Dhanjishaw Dadabhoy Chatkia,  
Bilimora, Surat  
Govinji Bhavan, Outside Golvadi  
Gate, Viamgam, Ahmedabad.  
Gulab Bhai Vasanji Desai, Bhagda  
Khurad, Bulsar Surat  
Manilal Maganlal, P O Bavla,  
Ahmedabad  
Pritamdas Badar Das, Outside  
Golvadi Gate, Viamgam, Ahme  
dabad  
R M Jethabhoy Co, Bilimora  
Surat

### CALCUTTA.

Asiatic Timber Co, 67-26, Strand  
Rd, Nimtollah, Calcutta  
Behaghata Box & Timber Co, 8,  
Chaulpatty Rd, Behaghata, Cal.  
Bengal Timber Trading Co. Ltd,  
4, Clive Row, Calcutta  
Bhagwandas Bagla Rai Bahadur,  
67-22, Strand Rd, Calcutta  
Bharat Timber Works, 26, Jora-  
bagan St, Calcutta  
Bird & Co, Chartered Bank  
Bldgs, Calcutta  
Boisocah Timber Co Ltd, 12 Mis-  
sion Row, Calcutta  
Calcutta Buildings' Stores Ltd.  
62, Bowbazar St, Calcutta  
Calcutta Timber & Trading Co,  
63, Strand Rd, Nimtollah, Cal  
Calcutta Timber Works 1 Radha  
Krusto Sett St, Cal  
Himatsingka Timber Ltd 6, Old  
Post Office St, Cal  
Martin Co, 12 Mission Row,  
Calcutta (Andaman Timber).  
Mishra Timber & Trading Co,  
149 Amherst St, Cal  
Motilal Radhakissen, 67-26, Strand  
Rd, Calcutta

N. R Ghosh & Co, 2, Canal East  
Rd., Calcutta  
P Chakravarty, 4-1, Monohar-  
pukur Road, Kalighat Calcutta  
Yard —Shalimar, Howrah  
Ramkumar Ramdew, 5, Taltola  
Avenue, Calcutta  
Ramprosad Bujlal, 67-10, Strand  
Rd, Calcutta  
Satish Chandra Dey & Son, 76-1,  
Cornwallis St, Calcutta  
Satyanarayan Ramcoomar, 187,  
Darmahatta St, Calcutta.  
Sinha Timber Trading Co, 187,  
Darmahatta St, Calcutta  
Sreekrishna Timber Works, 256,  
Chittaranjan Avenue North.  
Calcutta  
Standard Timber Co, 65-1, Dur-  
mahatta St, Calcutta  
Timber Produce Syndicate Ltd.  
5, Nimtolla Ghat St, Cal.  
United Timber Trading Co, 33,  
Bowbazar St, Calcutta

### CENTRAL PROVINCES.

Balharshah Timber Syndicate,  
Ballarput, Chanda Dt.  
Shree Krishna & Sons, Sagoni  
Bandhubpur, Damoh

### DELHI.

Durga Timber Works, Karol  
Bagh, Delhi  
Lala Dharam Das Ganga Das  
Jain, Sadar Bazar, Delhi  
Lala Samman Lal, Sadar Bazar,  
Delhi  
U P Timber Works, Old Ganesh  
Mills, Delhi.

### INDIAN STATES.

A C Chumar & Son, P O Ollur,  
Cochin State  
Adamji Vallji, Poibandar  
Akbarali Nurbhai, Para, Morvi,  
Kathiawar  
C Kizerkhan Salub, Chikmagalur  
Mysore  
Chhotulal Maldas, Lati Bazar,  
Bhavnagar, Kathiawar  
D Subba Rao & B Aisohi Rao,  
Cottonpet Bangalore City  
G. Mohanti & Sons, Thakur  
munda Via-Rairangpur, Mayur  
bhanj State, B N Ry.

**COMPLETE TAILORING** contains the latest information on making of fashionable garments. Rs 3/8. Industry Book Dept., Shambazar, Cal.

Girdhar Laxmi Chand, Bedi Gate,  
Jamnagar, Kathiawar  
Girdhar Sundari, Uagar Chakia,  
Jamnagar, Kathiawar  
Hajee Kassam Musa, Bantva, Ka  
thiawar.

Jusab Abdul Karim, Magnath St,  
Junagadh, Kathiawar

Kanjee Ananjee Jafarabad

Kapur Chand Pana Chand, Raj-  
kot Pura, Kathiawar.

M A Hafeez Bros, Zanana Hos-  
pital Rd, Bahawalpur

Moosaji Tajbai, Bandar Palo,  
Porbandar, Kathiawar

Ranchod Anandjee, Jafarabad

S Kodandarmiah, Chamarajpet,  
Bangalore

S Krishnah & V Vajapey,  
Cottonpet, Bangalore City

Tajbhai Jiwan, Bundai Palo, Por-  
bandar, Kathiawar

Timber Supplying Co, Poonch,  
Kashmir

Tribhovandas Lalji Patel, Lati  
Bazar, Bhavnagar, Kathiawar

Vithaldas Makani & Sons, Ran-  
chhodji St, Navsari, Baroda

#### KARACHI.

Ahbbhy Jeewani, Swami Narayan  
Chawl, Karachi

Essaji Ebrahimjee & Co, Sheikh  
House, Campbell St, Karachi

Manilal Amritlal Shah, Serai Rd,  
Karachi

R Pandya & Sons, Fiere Rd,  
Karachi

#### LAHORE.

Lala Devi Chand Khanna, Nisbet  
Rd, Lahore

Lala Sundar Das Bhalla, Nisbet  
Rd, Lahore

Ram Lal Ram Paikash, Pattoki,  
Dt Lahore

Spedding Dinga Singh & Co,  
Davis Rd, Lahore

#### MADRAS CITY.

B Moldoo & Co, 47, Sydenham's  
Rd, P T Madras

C V Ramswamy Mudaliar, 4, Sy-  
denham Rd, Madras

Devar & Co, Port Trust Madras

K A Rahiman & Co 79, Syden-  
ham Rd, P T, Madras

M G Murugesam Chettiar, 65 56,  
Basin Bridge Rd, Madras

P Duraiswamy Mudaliar, 62, Ba-  
sin Bridge Rd, Madras

P Nathamuni Naidu, Royapuram,  
Madras

T Sashadri Iyengar & Sons, Syd-  
enham's Road, Near Salt Cot-  
taurs, Madras

T Sivananda Chettiar & T Vadi-  
velu Chettiar, 125, Sengalaneer  
Pillayar, Kovil St, Madras

V M Raghavalu Naydu & Sons,  
16, Venkataramei St, George  
Town, Madras

V Rajagopalacharya, 50B, Syden-  
ham's Road, Park Town, Mad-  
ras

V T N Gajarama Mudr & Co.  
64, Sydenham Rd, Park Town,  
Madras

#### MADRAS PRESIDENCY.

A K Kanhimayam Hajee, Bali-  
patam, Malabar.

A R A S Duraisamy Nadar,  
Victoria Extension Road, Tutic-  
corin

A R A Shenvaga Nadar, Palam-  
cottah, Tinnevely

Converjee Aideshi & Co,  
Court Rd, Calicut

Delta Trading Co, Bezwada,  
Kistna

G A S Shunmuga Nadai, Vic-  
toria Ext Road, Tuticorin

Janab Khan Saheb V K Unni-  
kammo Saheb, M L A Olavak-  
kot, Malabar

K B Thomas, Pullupalam Canal  
Road, Bi —Cochin (Mfrs of

Light wood packing Cases,  
Wooden Casks & Furniture)

K K Devassy, Ollur PO,  
Trichur

K K Kultun & Son, Eranhipa-  
lam PO, Malabar

M Appadurai Iyer & Sons  
Western Boulevard Rd Trichy

Malabar Timber & Saw Mills Co.  
Ltd Kallai, Malabar

Pasumartv Venkata Rao Chetty,  
Chinnamvaram St, Vizagapatam

Sri V K Sankaram Nair Ni-  
lambur, S Malabar

**BANK WITH THE PATUAKHALI BANK LTD., OWNED AND  
MANAGED BY ALL LEADING MEN OF PATUAKHALI.**



Standard Furniture Co., Ltd.,  
Kallai, Malabar.  
T Nairayanamurty, Veeranki.  
Lock, Kistna  
T Veerayya Veeranki, Lock,  
Kistna  
Tupurantaka Mudaliar, B S, Cali  
cut

**ORISSA.**

B N. Lath, Bamua Sambalpur  
Birabar Jena Mongia Bag, Cut-  
tack  
Dhobi Raj Jhanyimongla.  
Cuttack  
L N Bezbaru, Court Road,  
Sambalpur  
Mahamedkhan Gulabkhan, Sam-  
balpur  
Nepal Chandia De, Khatbin Sah,  
Cuttack  
Sarat Chandia De Khatbin Sah,  
Cuttack  
Shib Das Mukherjee, Near Sadai  
Poli, Sambalpur  
Siva Das, Baikpuri P O, Behanga  
Balasore

**PUNJAB.**

Bawa Bahadur Singh, Abdullapur,  
Dt Ambala  
Bharat Timber Depot, Karnal  
Budhram Suraj Bhan, Karnal  
Gulab Singh Gurbachan Singh,  
Sargodha  
Hukumchand & Sons, Rawal-  
pindi.  
Khanchand Khem Chand Talwar,  
Rawalpindi

Khawaja Ahmed Fazal Haq,  
Jhelum  
M. Imam Din Sardar Ali, Sai-  
godha.  
M Mohd Ismail, Sargodha  
Mohd Saddiq, Karnal  
Naiz Mohd Ch, Karnal  
Sakhi Mohd Abdul Aziz, Jhelum

**UNITED PROVINCES**

Ashfaq Kureishy, B A, Man-  
nuganj St, Dehra Dun  
Bhoop Narain Dilmohan Nairain,  
Ghora Nakhas, Farrukhabad  
Cawnpore Timber Works, Bans  
Mandi, Cawnpore  
Digambar Peishad Tiloki Nath,  
Jhanda Rd, Dehra Dun  
Durga Datt Devi Datt, Satti  
Chandra, Yehiapur, Allahabad  
Hanuman Ram, Khawaspura.  
Fyzabad  
Indian Timber Works, Bans  
Mandi, Cawnpore  
Mukand Lal & Sons, Dandipuri  
Rd, Dehra Dun  
Rama Nand Badhridas, Kabi  
Bazar, Meerut City.  
Sardar Sahib S Singai Singh &  
Son, Cantonment Road, Luck-  
now Br —Bara Banki, Allaha-  
bad  
Saved Zaffar Hussain, Bans  
Mandi, Cawnpore  
Seikh Abdul Rahman, Deoria,  
Gorakhpur  
Singai Singh & Son, La Touche  
Rd, Lucknow  
Union Timber Trading Co, 3  
Hauisganj, Cawnpore

**TIN BOX MANUFACTURERS.**

Abdul Satai Noorimohomed Daba-  
wala, Damar Guly, Dortad St,  
Bombay  
Agia Tin Mfg Co, Belangunj,  
Agra  
Alibhoy Valljee & Sons, Flphn-  
stone Street, Karachi  
Bengal Tin Box Mfg Co Ltd, 1,  
Jadunath Mitter Lane, Cal  
Calcutta Tin Can & Enamel  
Works, 72, Tiljala Road, Cal  
Calcutta Tin Factory, 14-2, Halsi  
Bagan Road, Cal  
Central Canning Co, Kairwai,  
Kanara (Fruit Cans)

Colour Printing & Hollowware  
Works, Ltd, 243, Upper Cincu-  
lai Road, Calcutta  
D Govindarajulu Naidu & Co 19,  
Habibullah Sahib Street, Trip-  
licane, Madras (Die Tin)  
Dhur Tin Factory, 101, Aukhoy  
K Mukherji Road, Calcutta  
Esoofally Dawoodbhoy, 18, Doc-  
toi Street, Dhanwadi Mohalla,  
Bombay  
F W & Co, Dev Sami, Lahore  
Fidaally & Co, 7, Falkland Road,  
3rd Cross Lane, Khetwadi Back  
Road, Bombay

**"Pharmaceutical Preparations" A guide to preparing patent medicines.**  
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Gajanand Rampratap & Co, 6A, Nirode Behari Mullick Road, (Halshibagan), Calcutta  
 Ganga Tin Factory, 5, Raja Rajkissen Street, Calcutta  
 Ganputray Ramnarain & Co., 243, Upper Circular Rd, Calcutta  
 H A G Tin Factory, Ghaffer Bldg, King Edward Road, Sewree, Bombay  
 Habib Dada & Co., 63, Dondad Street, Mandvi Bombay  
 Hajee Almahomed Hajee Bachooally, 117-119, Nishanpada Rd, Bombay  
 Honest Printing, Ghee Kanta Road, Ahmedabad  
 Husainah Abduali Tinwala, Husainali Bldg, 10-12, Upper Duncan Road, Bombay  
 Imperial Litho and Tin Printing Works, 7-B, Nanda Mullick Lane, Calcutta  
 Kanaylal Dhar, 11, Swallow Lane, Calcutta  
 Kooverji Devshi & Co, Lohar Street, Bombay

M L Day & Co, 9, Harinbari 1st Lane, Calcutta (Drums)  
 Metal Box Co of India Ltd, B2, Hide Road, Kidderpore, Calcutta Branch Worli, Bombay.  
 Metal Decorating and Shaping Co, Ltd, 48, Prince Anwarshah Road, Tollygunge, Calcutta  
 National Sheet & Metal Works Ltd, 36A, Sahitya Parishad St, Calcutta (Also Tin Printer)  
 National Tin Manufacturing Works, Ltd, Belanganj, Agra  
 Rathnam Industrial Works, 38, Murugappa Mudali St, Vepey, Madras  
 Sahibganj Tin Can Mfg, Co. P O Sahibganj, S Pargas  
 Saify Tin Factory, Upper Duncan Road, Bombay 8  
 Shri Vardhman Tin Canister Co. Belanganj, Agra  
 Siddique Tin Factory, 164-166, Bapty Road Two Tanks, Bombay  
 Tin Can Mfg Co, Ajmer

### TIN PLATE DEALERS.

Abdulhusen Adamji & Co, Bhajipala Lane, Bombay  
 Alibhoy Harderbhoy Chitalwala, Dhaboo Street, Near Null Bazar, Bombay  
 Bengal Glass Stores, 213, Old China Bazar St, Calcutta

Dutt & Co, Room No 1, Clive Bldgs, Clive Street, Cal  
 Kanay Lal Dhur, 11, Swallow Lane, Calcutta  
 Radha Raman Dutt & Sons, Clive Bldgs, Clive Street, Cal  
 Tin Supply Co, 1688 Khedia Jalowali Naka, Ahmedabad

### TIN PRINTERS

Bengal Tin Box Mfg Co, Ltd, 1, Jadu Nath Mitter Lane, Cal  
 Colour Printing & Hollowware Works, Ltd, 243, Upper Circular Road, Calcutta  
 Imperial Litho & Tin Printing Works, 7B, Nanda Mullick Lane, Calcutta  
 Metal Box Co of India Ltd, B2, Hide Road, Kidderpore, Cal  
 Metal Decorating & Shaping Co, Ltd, 48, Prince Anwarshah Road, Calcutta

National Sheet & Metal Works Ltd, 36A, Sahitya Parishad St, Calcutta  
 Tin Printing & Metal Works Ltd, Subji Mandi P O Birla Lanes, Delhi  
 Tin Printing Works, Kutchra Rd, Arrah, Dt Shahabad  
 W R Talwalkar, Lentin Chambers, Dalal St, Fort, Bombay.

### TOBACCO MERCHANTS.

#### BENGAL

Aharuddin Dalal, Gobrasara Kanraj, Cooch Behar

Ajmatulla Saiker, Pachapukur, Rangpui  
 Asharam Todarmall, Kaunia, Rangpui

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Bansidhar Angutnam, Lalmanirhat, Rangpur.

D N. Dass, Kayapati, Cooch Behar

Duraj Mall Chaturbhuj, Tista, Rangpur

Hara Chand Deb Nath, Piyaipur, Kalir Bazar, Mymensingh

Haikrishna Choudhury, Khatunganj, Chittagong

Harsamall Kissen Saha, Chulhati, Rangpur

Nagendra Nath Dutta, Nutangunge, Bankura (Biri Tobacco)

Ram Chandra Paul & Son, Dinhata, Cooch Behar

Ram Lal Gangalal, Kayapati, Cooch Behar

Ramananda Shah, Rajgonj, Comilla

Sieeram Chandra Saha, Kapashatia, Nagaibathi, Jessore

### BIHAR.

Baldeo Saha, Ekman, Jalalgah, Purnea

Chamar Sahu Mahabir Prasad, Katchey Road, Gaya

Chan Chal Ram, Simraha, Purnea

Chulai Saha, Dhandaha, Purnea

Jamuna Prasad Mahato, Brahmanthan, Purnea

Nanda Lal Saha, Hansi, Jalalgah, Purnea

Raghunandan Prasad Shewnanandan Prasad, Gulzarbagh P O, Patna (Khambira)

Rameshwar Sahu, Gumla, Ranchi

Sri Chamli Shah Mahabir Prasad, Gaya

Sri Lal Mandal, Gogulnagar, Purnea

Sukul Sahu Jhulan Sahu, Gaya

### BOMBAY CITY

Chandrakant Ujamshi, Maskati Niwas, Lohar Chawl, Bombay

Hasanali Saleh Mahomed & Co, Govt Tobacco Ware House, Custom House, Rd, Bombay 1

M H Gandhi & Sons, Old Custom House Road, Fort, Bombay

### BOMBAY PRESIDENCY.

Bhikabhai Narayanbhai, Nadiad, Kaira

Hajee Latif Abdulla, Nipani, Belgaum, Dist (Biri Tobacco)

Haribhai M Patel, Desai Vago, Nadiad, Kaira

Pravin & Bros, Bansda, Dist Surat.

Suleman Hajee Latif, P O Nipani, Belgaum Dt (Beedi Tobacco)

### CALCUTTA

Abdul Halim, 31-32, Lower Chitpore Road, Calcutta

Akhil Ch Sadhukhan, 16, Raja's Chowk, Calcutta

Ambalal Kashibhai Patel, 3K, Rupchand Roy Street, Calcutta.

Atha Bros, 47, Ezra St, Cal (Beedi leaves & tobacco)

B Seal & Co, 8, Damzen's Lane, Calcutta

Bhailal Bhikhabhai & Co, 99-2, Lower Chitpur Road, Calcutta.

(Tobacco Biri)

Bhowum Bhoi Raghunath Prasad & Co, 8-1, Rup Chand Ray St, Calcutta (Biri Tobacco)

Calcutta Balakhana Tobacco Factory, 71, Lower Chitpur Road, Calcutta (Hooka tobacco)

Chameri Sau Mahabir Prosad, 226, Harrison Road, Calcutta

Child & Co, 8, Chowringhee Rd, Calcutta

Hajee Latif Abdulla, 130, Lower Chitpur Road, Calcutta

Jaynarayan Surajmal, 99-4A, Lower Chitpur Road, Calcutta.

(Beedi Tobacco).

Kedarnath Mukherjee & Son. Ujir Chowdhury Road, Ultadanga, Calcutta. (Hooka tobacco)

Osman Vira & Co, 24-25, Armenian Street, Calcutta (Biri Tobacco)

Tobacco Box, Metro House, Chowringhee, Calcutta.

Vithaldas Thackerish & Sons, 24-25, Rupchand Roy St., Calcutta (Biri Tobacco)

### CENTRAL PROVINCES

Hajee Latif Abdulla, Auradabari, P O Khalai, Dt Raipur

Hailal Mohanlal, Waidha.

### INDIAN STATES

Bhimji Pardhan, New Line, Poitbandai, Kathiawar

Central India Tobacco Co., Ltd.,  
Lashkar, Gwalior State  
Chathan Bandathil Varkey, Moo  
vattupuzha, Travancore  
Jaganath Ramsahal, Madhoganj,  
Lashkar, Gwalior  
Lalji Dahyabhai, Rajkot Pura,  
Kathiawar  
Moraji Bavabhai, New Lane, Poi-  
bandar, Kathiawar  
Thoma Antony Ayl, Near Chava  
Kotta Palam, Alleppy, Travan-  
core  
Tirumalai Tobacco Co., Bowling-  
pet, Kolai  
Vithaldas Damodai, Naini Bazar,  
Wadhwan Camp, Kathiawar

**MADRAS CITY**

A Abdul Karim & Co, Mannady  
Street, G T, Madras  
A Appadoial Mudahar and Son,  
P B 189, 2-21, Parish Ven-  
katchala Iyer Street, Madras  
Bailbhai and Co, 4-153, Broadway,  
Madras  
Chari and Chaii Ltd, 2-6, Second  
Lane Beach, Madras

**MADRAS PRESIDENCY**

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palli, Subbiah Co, Elore, W  
Godavary  
Chandajee Khubajee and Co,  
Guntur  
Chintakrindi Kanakiah Co,  
Mangalaguni, Guntur Dt  
Commercial Tobacco Co, Guntur,  
S India.  
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Road, Cocanada  
Janga Ramiah, Jangavani Street,  
Elore, W Godavari Dt  
K V Abdul Razack Sahib, Polla-  
dam, Coimbatore Dt  
L Kanniah Gowder, 10-10, L M  
H School Road, Coimbatore  
M A Rahaman Ahamed Bros,  
Guntur  
P V N Mahomed Bava, Market  
St, Mettupalayam, Nilgiris  
P V Vinayagamunthi, North  
Gate, Madurai  
R D Chirala, Guntur  
Sammaji Seshamal & Co, Guntur  
Sri Damaria Ramakanta Rao,  
B.A., Mangalaguni, Guntur Dt

V M Abdul Kader, Variety Hall  
Road, Coimbatore

**N. W. F PROVINCES**

L Amir Chand Roshan Lal, Reti  
Gate, Peshawar City  
L Makhan Mall Mahindai Singh,  
Hoti, Mardan, N W F P

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haganj, Cuttack  
Shyamal Palnam, Marwar  
Para, Sambalpur

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dur  
Rama Bhai Laloo Bhai, Karam-  
sad, Gujrat  
Ramchandar Mohai Singh, Gokal  
Gate, Rewari  
Sh Faizullah & Bros, Sargodha

**SIND**

Dwaika Tobacco Co. of India,  
Sukkur

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Chedi Lal & Sons, Fatehganj, Fy-  
zabad  
Dinanath Jwala Peisad, Dham-  
pur  
Hafiz Munney Ramzan Ali, Baia  
Banki  
Hotilal Ram Chaiian, Mohi Jai  
Jai Ram, Kasganj  
Jankidas Bhagwan Sarup, Deni-  
Dun  
Jhabba Lal Banwarilal, Dhampur  
Kapoor & Co, Biswar, Sitapur  
Lal Man Baburam, Lal Sarai,  
Fairukhabad  
M A Brothers, Lucknow House,  
Valley Bazar, Meerut  
Mithoo Lal Lalita Pd, Pul  
Pukhta, Fairukhabad  
Mohammad Ali Fatehganj, Fyza-  
bad  
Nabi Bux Dildai Bux, Etah  
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Varma, Musky Tobacco Factory,  
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Indian Leaf Tobacco Development Co., Khajauli, Daibhanga, Chitala, Guntur.

Indian Tobacco Butt Factory, Dalsingserai, Daibhanga  
Karamat Mian, Purani Godown, Gaya.

Peninsular Tobacco Works, Basdeopore, Monghyr

**BOMBAY CITY.**

Behram Bros., Oomigai Bldg., Opp Crawford Market, Bombay

British India Tobacco Stores, 29, Churchgate St, Fort, Bombay.

Crown Tobacco Co., Bandia, Bombay

Harver & Co., 217-19, Freire Road, Fort, Bombay

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K C Tiwari, Nasik City

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B Seal & Co., 102, Clive Street, Calcutta.

Calcutta Tobacco Factory, 5-17, Canal East Road, Ultadanga, Calcutta

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D. Maciopolio & Co., Ltd., 11, Old Court House St, Cal

Great Eastern Tobacco Co., 15, Clive Row, Cal

Imperial Tobacco Co., of India Ltd., 37, Chowringhee Road, Calcutta

Mohamed Yakoob Mohamed Yaseen, 71-10, Canning St, Calcutta

Osman Vira & Co 24-25, Armeenian St Calcutta

P C. Dutt & Co., 1, Chandney Chawk, Dharamtala, Cal.  
Tobacco Box, 5, Chowringhee Rd., Calcutta.

Tobacco Industries (India) Ltd., 8, Clive Row, Cal

Tobacco Manufacturers (India) Ltd., 37, Chowringhee, Cal

Virginia Tobacco Co., (India), Ltd., B-5, Clive Bldgs, Delhi

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Central India Tobacco Co., Ltd. Lashkar, Gwalior State

City Tobacco Co., Bangalore City

Mysore Tobacco Co., Ltd., District Board Buildings, Kempegowda Rd., Bangalore City.

Oriental Tobacco Mfg Co., Bowringpet, Mysore State.

Peninsular Tobacco Co., Bangalore

Ramutana Tobacco Works, Virginia House, P O Sarola, Kotah.

Ranchordass Koriundas & Sons. Patla Bazar, Anjar, Cutch

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Framji Sorabji & Sons, Fiere Rd., Karachi

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Mc Dowell & Co., Ltd., 2 and 6 2nd Line Beach, Madras.

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Jagdish Pd Laxminarain, Khair-  
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Cawnpore

Rasool Baksh Shaikh Bhagoo,  
Daliganj, Lucknow

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(See Perfumery Dealers & Manufacturers)

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hos Road, Howrah

India Machinery Co Ltd, Dass-  
nagar, Howrah M/Agents —  
Dass Brothers.

S C Dass & Co, H O 178 Beli-  
hos Road, Howrah

S P Guchait & Sons, 2, Madhu-  
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walla Bldg, 108, Lohar  
Chawl, Bombay

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Mount Road, Opp P O, Mazaga-  
on, Bombay

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Lane, Fort, Bombay

Electro Engineering Co, Old Gun  
Carriage Factory, Colaba Bom-  
bay

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Gowalia Tank, Bombay 6

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neering Co, Ltd, Bombay  
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A Sur Co, 233, Upper Chitpur  
Road, Cal (Jewellers)

Adair Dutt & Co, Ltd, 5, Dal-  
housie Square, Calcutta

Angus Keith & Co, 30, Strand  
Road, Calcutta

Associated British Machine Tool  
Makers Ltd, 6, Old Post Office  
Street, Calcutta

Bhartiya Engineering Works, 370,  
Upper Chitpur Road, Calcutta  
(Telephone —BB 4945, Tele-  
gram —Chamfered Calcutta)  
H O Shahibganj, Bihar

Dey Ghosh & Co, 133 & 133-1,  
Chandney Chowk, Calcutta.  
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Clive Street, Calcutta

K. C Das & Co, 134, Chandney  
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Calcutta

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Chandney Chowk, 2nd Gate,  
Calcutta (Carpenters' Tools)

Mohendra Nath Singha & Co,  
160 & 161, Inside Chandney  
Chowk, Calcutta (Carpenters'  
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Babu Lalamul Agarwala, 16, Upper Chitpore Rd, Calcutta

Baktawar Lal Kironi Mal, Dariba Kalan, Delhi

Bata Shoe Co, Ltd, Batanagar, (24-Parganas)

Bengal Potteries Ltd, 45, Tangra Rd, Calcutta

Bepin Behary Dass & Grandson, 63, F & G Radha Bazar Street, Calcutta

Building Models & Toy Manufacturing Co, 42, Raj Narain Raychaudhury Ghat Rd, Sibpur, Howrah

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Deccan Wood Works, 601, Shukrawar Peth, Poona City

Delhi Toys Works, No 168 Chandni Chowk, Delhi

Doll, Dummy & Toy Manufacturing Co, 27, South End Park, Ballygunge, Calcutta

Fancy Toys Works Outside Dariba Kalan, Delhi

Gaza Bros, Codacal, Thru, S Malabar

Guduthuri Jagannadham & Sons, Lacquered Wooden Toys Factory, Tuni, East Godavari

Hajee Janmahomed Latiff, 299, Abdul Rehman St, Bombay

Hari Charan Dass & Co, 63H, Radha Bazar St, Calcutta

Hindustan Tin Toys & Locks Factory, Mohalla Krishna Mill, Delhi

Hindusthan Potteries Works, 20, Strand Rd, Calcutta

Indo Aryan Trading Co, 12, Sheo Ashram, Delhi (Paper Mache Toys)

Japan Toy House, 54, Canning St, Calcutta

K Subbayyudu & Co, Konda palli, Kistna (Wooden)

Kannan & Co, Tuticorin, S I (Wooden Toys)

Kudalkar Savantwadi Toy Works, Savantwadi, Ratnagiri

Lakshmi Cottage Industry, 93-4, Hari Ghose St Calcutta

Lall & Co, Chandni Chowk, Delhi

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 Santilall Ratanlall, Meston Road, Cawnpore  
 Sarju Pershad & Co, No 51, Aminabad Park, Lucknow  
 Sat Cowrie Dass & Co, 196, Old China Bazar St, Calcutta  
 Shree Khunya Muralidhar Toy Works, 390, Sadashiv Peth, Poona City

Shri Krishna Wooden Toy Works, Tuni, Godavary  
 Tandan Bros & Co, Block No 6, Deira Ghazi Khan  
 Tarun Silpa Agency, 62, Manicktola St, Calcutta (Wooden)  
 Upendra Nath Bhowmik, 131, Sukea St., Calcutta  
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 Chatterjee Bhattacharjee Bros, 6, Raja Woodmunt St, Cal  
 Ebrahimji Hassanbhoj & Sons, 30, Strand Rd, Calcutta  
 Expert Tube Well Co, 129-1, Bowbazar Street, Calcutta  
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Scientific Well Co, 14, Raja Woodmunt St, Calcutta

Scott & Saxby Ltd, 19, British Indian St, Calcutta

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Volkart Bros, 8, Clive Street, Cal

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Godok Bros & Co, Brandreth Road, Lahore

#### PUNJAB.

Anantiam Khemchand, Anand Ashram, Panipat

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Formexo (Engineer) Ltd, Bareilly

Reliance Engineering Corporation, Vishwa Kutir, Begum Bridge, Meerut

Siri Ram Uberoi & Co, 51, Begam Bagh, Meerut Factory—Khannagar Gate, Meerut Branch—Old Chawri Bazar, Delhi

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- B Desai & Company, Patel House, Church Gate Street, Bombay
- B S Madava Rao & Bios, Chickmagalur, Kadu
- Chattarbuganji Turpentine Factory, Bareilly
- Gopal Rai Foolchand, Com Agent, Near Kahuki Kothi, Cawnpore (Rosin)
- Hiralall Debi Prasad, 43, Bantolla St, Calcutta
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- Jallo Rosin & Turpentine Factory, Lahore
- Laxmi Rosin & Turpentine Mfg, Co, Ltd, Hoshiarpur, Punjab
- Manicklal Pal & Co, 173-1, Dharamtala St, Calcutta
- Premier Store Supplying Co, Ltd, (Chemical Deptt), 8, Royal Exchange Place, Cal Factory -6, Station Road, Lilooah, Howrah
- S N Dey, 9, Bonfield Lane, Cal
- Sir Daya Kishan Kaul & Sons, 29, Lawrence Rd, Lahore

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- Agarwal Type Foundry, 83, Pandariba, Allahabad
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- Asutosh Auddy & Co, (Oriental Type Foundry), 16, Lower Chitpore Rd, Calcutta.
- Baroda Type Foundry, 22 5B, Jhamapukur Lane, Cal
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 New India Industries, Lamington Rd, Bombay or Poona No 4  
 Nirnaya Sagar Type Foundry, Kolbhat Lane, Bombay 2  
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 Swadeshi Type Foundry, 42, Guruvappa Chetty St, Chintadripet, Madras  
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 General Typewriters (Bombay) Co, 375, Hornby Road, Fort, Bombay  
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 Grief Products (India) Agency, Hasham Bldg, Church Gate St, Fort, Bombay

Jagmohandas Mangaldas & Co. Lentin Chamber, Dalal Street, Fort, Bombay.  
 S Navalkar & Sons, Sayee Bhawan, 14, Princess St. Bombay No 2  
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Anglo-Indian Typewriter Co., 116,  
Upper Circular Rd., Calcutta

Asiatic Typewriter Co., 6, Hast-  
ings St., Calcutta

Blackwood Bryson & Co., Ltd., 2,  
Mangoe Lane, Calcutta

British Typewriter Co., 309, Bow-  
bazar St., Calcutta

Calcutta Typewriter Co., 3-1,  
Mangoe Lane, Calcutta

Corona Portable Typewriter, 8-1,  
Dalhousie Sqr East, Calcutta

Eastern Typewriter Co., 3, Man-  
goe Lane, Calcutta

G Rogers & Co., 5, Dalhousie  
Sq., Calcutta

Globe Typewriter Co., 10, Clive  
Row, Calcutta B1—Ranchi,  
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Laurel Typewriter Co., 4-6-1,  
Waterloo St., Calcutta (Wood-  
stock Typewriters)

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para Main Rd., Cal

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Real Typewriter Co., 39, Strand  
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Clive St., Calcutta

Reliance Typewriter Company, 4,  
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Remington Rand Inc., 3, Council  
House St., Calcutta

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Royal Typewriter Co., 9, Mission  
Row, Calcutta

Royson Typewriter Co., 14, Ben-  
tinck St., Cal Factory—P416,  
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Ghat St., Calcutta

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Coronation Typewriter Co., Nai  
Sarak, Delhi

Typewriter (Sales & Service) Co.,  
(Regd.), Ajmere Gate, Delhi

### INDIAN STATES.

E I Zacharia & Bros., Valiya-  
pally St., Kottayam, Travancore

General Typewriter House, Inside  
Koli Gate, Bikaner.

V Krishna Hari Joshi Bajwada,  
Baroda

V Narayan, N R Salode & Co.,  
54-A, Chickpet, Bangalore

V V. Typewriting Institute, Mul-  
lakkal, Alleppey

### KARACHI

Globe Typewriting Co (India),  
Campbell St., Karachi

### LAHORE

Sulakhan Singh & Sons, McLeod  
Road, Lahore

Underwood Typewriter Agency,  
The Mall, Lahore

### MADRAS CITY.

Byramshaw & Co, Ltd., Mount  
Road, Madras

Leon Typewriter Co., 5, Lingha  
Chetty St., G T, Madras.

Typewriter Mart, 99, Big Street,  
Triplicane, Madras

Typewriter & Office Appliances  
(India) Co., Ltd., 17, Armenian  
St., Madras

Underwood Typewriters, 10-29,  
Mount Rd., Madras.

### MADRAS PRESIDENCY.

K S Kothandarama Iyer & Son,  
Briham Koli St., Kumbakonam.  
Spencer & Co, Ltd., Coimbatore.

### N W. F PROVINCE.

Pioneer Typewriter Co., Opp  
"Deans Hotel" (Near Railway  
Station), Peshawar Cantt

### PUNJAB

Indian Importing Co., (Regd.),  
Katia Bhai, Amritsar  
Said Bros, Lyallpur

### SIND

Mukhdum Ziauddin Sahib Sidiki,  
Sehwan, Larkana

### UNITED PROVINCES

Beloona & Co, Aminabad Sq.,  
Lucknow

General Radios & Typewriter Co.,  
The Mall, Cawnpore

Muttra Typewriting Works, Chha-  
tta Bazar, Muttra

Satya Narayan & Co, Banska  
Phatak, Benares City

Typewriter Trading Co., Mall  
Rd., Cawnpore

## TYPEWRITER RIBBON MANUFACTURERS.

(See under Carbon Paper Mnfrs.)

## TYRE MANUFACTURERS.

Dunlop Rubber Co (India), Ltd.,  
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Road, Madras

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Bombay



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Kalupur Gate, Ahmedabad

Md Ibrahim Md Din, Chandni  
Chowk, Delhi

National Dye & Waterproof Wks,  
39, Russa Rd, Calcutta

**UMBRELLAS & STICKS MANUFACTURERS.****ASSAM**

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Jatindra Nath Roy Baidhan,  
Gauhati

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Handle)  
Hemanta Kumar Raksit, Kapasia-  
patty, Comilla

**BIHAR**

Chuni Lall Sri Kissen, Jogbani,  
Purnea

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New Hanuman Lane, Bombay  
**Ebrahim Currim & Sons,**  
Rahim Building, Princess St,  
Bombay 2 B — Madras & Cal-  
cut  
Munshi & Co, 167-A, Ripon Rd,  
Bombay No 8  
Rokadia Umbrella Mait, 264-266,  
Juma Masjid, Bombay 2  
Royal Umbrella Mait, 284, Abdul  
Rehman St, Bombay 3  
Sorabji Nowroji & Co, 16, Elphin-  
stone Circle, Fort, Bombay

**BOMBAY PRESIDENCY**

Azad Umbrella Factory, Kaloopur,  
Ahmedabad  
Kalidas Durlabham & Sons, Rani  
Talao, Surat  
Noormohomad Dosabhai's Fac-  
tory, Buranpur Bhagol, Surat  
Shri Bhaskaranand's Umbrella  
Factory, Poona City

**CALCUTTA**

Akshoy Kumar Paul, 112, Khon-  
graputty St, Calcutta  
Ashutosh Paul & Batokrishna  
Paul, 121, Old China Bazar St,  
Calcutta.

Calcutta Sticks & Sports Works,  
163, Harrison Road, Cal Fac-  
tory — 35, Mott Lane, Calcutta

Gopal Chandra Paul & Bros, 6,  
Sib Kristo Daw Lane, Cal

Haridas Paul, 1, Khongraputty  
Street, Calcutta

Jagadish Chandra Ghosh, 5, Nil-  
moni Ganguli Lane, Amherst  
Street, Calcutta (Handle)

K B Manna & Sons, 44A, Nil-  
mani Ganguli Lane, Amherst  
St, Calcutta (Handle)

Kala Chand Bysack, 13, Noormull  
Lohia Lane, Cal (Handle)

Middya Brothers, 86-A, Old China  
Bazar St, Calcutta Factory —  
83, Old China Bazar St, Cal-  
cutta Branch — 1, Dharamtol-  
lah St, Calcutta

Mohendra Lal Dutt & Sons, 49-B,  
Harrison Road, Calcutta

Moujram Pannalal, 147, Harri-  
son Rd, Calcutta Show Room  
45, Armenian St, Calcutta

Mukherjee Bros, 303, Harrison  
Road, Calcutta

Nundo Lal Paul & Co, 125 &  
126, Old China Bazar St, Cal

Panna Lal Atta, 160, Old China  
Bazar Street, Calcutta

Parakh & Co, 159, Old China  
Bazar Street, Calcutta

Paul & Co, 161, Old China Bazar  
St, Calcutta

Paul Bros, 6, Khongraputty St,  
Calcutta

Paul Friends & Co, 159, Old  
China Bazar St, Calcutta

Paul Paul & Co, 12, Khongra-  
putty St, Calcutta

**S. C. Mukherjee & Sons,**

44-2, Harrison Rd, Calcutta

Sohanlal Mohanlal, 142, Old  
China Bazar St, Calcutta

Tulsi Dass Paul, 4-5, Khongra-  
putty St, Calcutta

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sorts of insecticides & medicated cottons Re 1/12. Industry, Calcutta.

Wooma Charan Sen & Co, 136,  
Old China Bazar St, Calcutta

### INDIAN STATES

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baywala, Siaganj, Indore City.  
Bakherbhai Rasulbhai & Sons,  
Opp Narsingji's Pole, Baroda  
Bangalore Umbrella Manufactur-  
ing Co, Chickpet, Bangalore  
Hajee Haroon Tayeb & Son,  
Alleppey, Travancore

### MADRAS CITY

Ebrahim Cullum & Sons, 251-256,  
China Bazar Road, Madras  
King Umbrella Mart, 255, China  
Bazar Road, Madras

Nagjee Purnshottam & Co, 237,  
Govindappa Naik St, Madras  
National Umbrella Mart, 254,  
China Bazar Road, Madras

### MADRAS PRESIDENCY.

Malabar Colombia Works, Thek  
kumthala, Calicut, Malabar

### UNITED PROVINCES.

Mohomed Sayed Hin, Meston  
Road, Cawnpore  
Mungh Prasad & Co, Mall Road,  
Cawnpore  
Rizvi Brothers, Paltan Bazar,  
Dehra Dun (Hill Stick)  
Shahaji Mian, Rampur, U P.  
(Bamboo Sticks)

## VACCINES & SERUMS MANUFACTURERS.

Bengal Chemical & Pharmaceuti-  
cal Works, Ltd, 164, Manicktala  
Main Rd; Calcutta  
Bengal Immunity Co, Ltd, 153,  
Dhuriantola St, Calcutta  
Calcutta Research Association,  
Ltd, 6, Chowringhee Rd, Cal  
Indian Medical Laboratory, Ltd,  
44, Badurbagan Street, Calcutta

Medical Supply Concern Ltd, 197,  
Cornwallis St, Calcutta  
Smith Stanistreet & Co, Stephens  
House, Dalhousie Sq, Calcutta.  
Standard Chemical & Pharma-  
ceutical Works, 1, Jahar Lal  
Dutt Lane, Ultadanga, Calcutta  
Union Drug Co, Ltd, 285, Bow  
Bazar Street, Calcutta

## VEGETABLE PRODUCTS MANUFACTURERS & DEALERS.

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Phoozeshah Mehta Rd, Bom-  
bay Branches—14, Guzar St,  
Bhendī Bazar, & Lehi Manzil,  
Bhendī Bazar

Amrit Banaspati Co, Ltd, Fac-  
tory—Ghaziabad U P

Aritlal Dharamsi & Co, 5, New  
Chinch Bunder Road, Bombay.

B Mavji & Co, Ladhahai Gan-  
pat Bldg, New Chinch Bunder,  
Bombay

Bhailal Raychand & Co, Bhailal  
Bhuwan, New Chinch Bunder  
Road, Bombay 19

Bhawani Malshi & Co, Patel  
Building, New Chinch Bunder  
Road, Bombay

Bombay Trading Co, 11 Bank St,  
(3rd Floor), Above Cafe India  
(Restaurant), Fort, Bombay 1

Chhaganbhai Bhanji, Boot House,  
New Chinch Bunder Rd, Bom-  
bay

Doongesey Mulji Co, 105, New  
Chinch Bunder Road, Bombay  
Ganesh Flour Mills Ltd, Delhi  
(Vegetas)

Great Vanaspati Stores, 161-11,  
Harrison Road, Calcutta

Hindusthan Vanaspati Mfg Co,  
Ltd, Lloyd Bldgs, Ballard Es-  
tate, Bombay

Hoosen Kasam Dada, 26, Ama-  
tolla St, Calcutta

Indian Vegetable Products, Ltd,  
Jnc Connaught Cross Road &  
Reay Road, Bombay

Kanubhai Bhanji & Co, Improve-  
ment Trust Building, New  
Chinch Bunder, Bombay

Kassim & Ismael, Marble House,  
Garstin Place, Calcutta

Khanna & Harnaj, Bible House,  
166, Hornby Road, Bombay

Khimji Ravi & Co, Ratan Bldg,  
89, New Chinch Bunder Road,  
Bombay

Maganlal Popatlal Mehta, Gondia

**"Dental Preparations"**—An invaluable guide to manufacturers of tooth  
powders, pastes, mouth-washes, etc Re. 1/12. Industry Book Dept, Cal

Modi Mills Ltd, 11, Beharaputty St, Calcutta  
 Modi Vanaspathi Mfg Co, Begamabad, U P  
 Snowwhite Food Product Co, Ltd, Howrah (Charka, Balloon, Deer, Liberty, Jockey, Bhul, Pradip)

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Vegetable Product Stores, 5-2, Garstin Place, Calcutta

W B Soman & Co, 26, Cross Lane, Parel, Bombay

### VERMILLION MANUFACTURERS.

B Dutt & Co, Madhabpasha, Barisal  
 Bhucanhand Bhawarlal, 109-A, Khengraputty St, Calcutta  
 Chattu Lall, Tirthghat, Patna City  
 Davenport Trading Co, 1, Kashi Ghosh Lane, Calcutta  
 Deb Raj Mati Lall, Jogbani, Purnea  
 Indian Vermilion Mfg Co, 16-1, Nandalal Bose Lane, Baghbazar, Calcutta

Karim Meyan Abdul Rahim, Machchhatta, Patna City

M C G P Works 19, Gopal Neogy Lane, Calcutta

Maya Products, 10-1A, Nebutala Road, Calcutta

Megh Raj Hazarimall, Jogbani, Purnea

R N & Co, Malakartala, Dacca.

### VULCANISING COMPANIES.

Albion Motor & Vulcanizing Co, 37, Golabari Road Calcutta

Friends Vulcanizing & Petrol Co, 179, Cornwallis Street, Cal

Aryan Motor Vulcanizing & Co., 1, Chandmani Road, Calcutta

New Globe Vulcanizing Co, 36, Circular Garden Reach Road, Kidderpore, Calcutta

### WASTE & OLD PAPER MERCHANTS.

Abdullah Mahamad, 40 A, Batthakkhana Road, Calcutta

Haji Mohammed Abul Ali, 31-2 Harrison Road, Calcutta

Bhim Chand Boral, 135 B, Batthakkhana Road, Calcutta

K Bhattacharjee, 31-2, Harrison Road, Calcutta

C A Mohammad, 15, Synagogue Street, H O 50, Canning Street, Calcutta

S K Singha, 31-1 B, Harrison Road, Calcutta

Tanyad Ali Mandol, Room No 4, 31-2, Harrison Road, Calcutta

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K L Verma, Kaisaiganj, Ajmer

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#### ASSAM

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L & P Gogoi & Co Panbazar, Gauhati

Sinha Bros & Co, Puruha, Manbhum

#### BENGAL

P C Banerjee, Commercial Row, Darjeeling

#### BOMBAY CITY.

Bharat Watch Co, 77, Abdul Rehman Street, Bombay

Crown Watch Co, Nanavati Building, 1618, Abdul Rehman St. Bombay

D R Pundole & Sons, 369, Hornby Road, Fort, Bombay

Eastern Watch, Hornby Road, Fort, Bombay

#### BIHAR

A Chatterjee & Bros, Main Rd Ranchi

"Dental Preparations"—An invaluable guide to manufacturers of tooth powders, pastes, mouth-washes, etc Re. 1/12 Industry Book Dept, Cal.



Favie-Leuba & Co, Ltd. 217-219, Hornby Road, Bombay  
 Geneva Watch Co. 97 Abdul Rehman Street, Bombay  
 L Bhagat & Co., 82-84, Abdul Rehman Street, Bombay, 3.  
 Madorina Watch Co. Ltd, Embassy House, Fort, Bombay  
 Meridian Watch Co 269 Hornby Road, P O Box No 333, Bombay  
 Renown Watch Co 346, Grant Road, Bombay 7  
 Rogers Watch Co, 333, Hornby Road, Fort, Bombay  
 Royal Watch Co Wassiamal Bldg Grant Road Bombay  
 Victor Watch Co, 37-39-41, Abdul Rehman Street, Bombay 3  
 Western India Watch Co, 215, Kalbadevi Road, Bombay  
 Wilson Watch Co, Empire Bldg, Hornby Road, Bombay.

#### BOMBAY PRESIDENCY

Dattaraya Watch Co, Agia Road, Dhulia, W Khandesh  
 Deccan Watch Co, Budhwar Peth, Poona  
 Eastern Watch, Hornby Road, Ahmedabad  
 Hiralal Harrison Das, Bazar, Navsari, Surat  
 Homasji Edolji, Bazar, Navsari, Surat  
 Royal Watch Co. 3123, Gandhi Road, Ahmedabad  
 Sardar Watch Co. Nasik City.  
 Shaik & Sons, Raviwar Peth, Poona 2  
 Shree Kailashchandra Watch Co, Agia Road, Dhulia, W Khandesh

#### CALCUTTA

A B Watch & Co, 6, Wellesley Street, Calcutta  
 Abrecht & Co, 16, 17, 18, Radha Bazar Street, Calcutta  
 Anglo-Swiss Watch Co, 6 & 7, Dalhousie Square, East, Cal  
 Anundo Chunder Ghose, (Norton Bldg), 21G, Old Court House Corner, Calcutta  
 Arcade Watch Co Great Eastern Hotel Arcade, Calcutta.  
 Allington & Co 18 Old Court House Street, Calcutta

Alora Watch Co, 1701, Harrison Road, Calcutta  
 Benod Behari Dutt, 7, 7-1, 7-2, Old Court House Corner, Radha Bazar, Calcutta  
 Benson Watch Co, 31, Dharamtola Street, Calcutta  
 Bimal Bros, 73, Harrison Road, Calcutta  
 Ch Abrecht, D5, Clive Bldgs, Calcutta; 269, Hornby Road, Bombay  
 Cooke & Kelvey, 20, Old Court House Street, Calcutta  
 Dass & Sons, 11, Radha Bazar St, Calcutta  
 Dutt & Co 135, Radha Bazar Street, Calcutta  
 Esoofally Hiptoolia & Co, 15, Radha Bazar Street, Calcutta  
 Bi —8, Chowringhee Rd, Cal  
 Favre-Leuba & Co, Ltd, Norton Bldg. 1, Old Court House Corner, Calcutta  
 Ghosh & Sons, 16-1, Radha Bazar Street, Calcutta  
 Great Western & Eastern Watch Co 179, Dharamtala St, Cal  
 Hamilton & Co, Ltd, 8, Old Court House Street, Calcutta  
 J Boseck & Co, Ltd, 16-5, Chowringhee Road Calcutta  
 James Murray & Co, 5, Old Court House Street, Calcutta  
 K Edulji & Sons, 5, Dharamtala Street, Calcutta  
 Limton Watch Co, 14, Dalhousie Square, Calcutta  
 M S Watch Co, 138, Radha Bazar Street, Calcutta  
 Madan Mohan Das & Co, 52-3, Harrison Road, Calcutta  
 Midland Watch Co, 9-1A, Chintamani Das Lane, Calcutta  
 Mishra Watch Co, 12, Chowringhee Road, Calcutta  
 National Trading Co, Moon House P40, Mission Row Extension Calcutta  
 New M Y Watch Co, 9, Radha Bazar Street, Calcutta  
 New Standard Watch Co, 152, Radha Bazar Street, Calcutta  
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 P Dutt & Co, 201, Cornwallis St, Calcutta

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 Roy & Co, 136 37, Radha Bazar Street, Calcutta  
 S K Ahmed, 36, Dharamtola St, Calcutta  
 S M Elias Watch Co, 139, Radha Bazar Street, Calcutta  
 S Roy & Roy, 74-1, Harrison Rd, Calcutta  
 Surendra Nath Dey, 5, Radha Bazar Street, Calcutta  
 Universal Watch Co, C 41, Municipal Market, Calcutta  
 Victoria Watch Co, 170, Harrison Road, Calcutta  
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 49, Esplanade Road, Bombay  
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 Ramcharan & Sons, Main Street, Mhow.  
 Western India Watch Co, Jivan Kuti, Ujjain

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**DELHI**

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 Central Watch and Optical Co, Fatehpuri St, Delhi  
 Cheap Watch House, Ajmere Gate, Delhi  
 Delhi Watch Co, P O Box No 55, Delhi  
 Imperial Watch House, Chandni Chowk, Delhi  
 Jayna Watch Co, Delhi  
 Jewel Watch Co, Chandni Chowk, Delhi 4  
 S M Usman & Co, Chandni Chowk, Delhi

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 Chandulal Tribhovan, Bazar, Morvi, Kathiawar

Damodar Tribhovan, Panchbatdi, Junagad, Kathiawar  
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 Jalal & Sons, Hyderabad, Dn  
 K C Rangachari, Lausdowne Bldgs, Sayyaji Rd, Mysore  
 K Rai & Sons, Barnala, Patiala  
 Kanji Govindji Ghadiyali, Rajkot Pura, Kathiawar  
 National Watch Co, Near Public Park, Bikaner  
 Prakash & Co, Choura Rasta, Jaipur  
 Universal Watch Stores, Juna Topkhana, Indore City  
 V Gulab Singh, Chikmagalur, Mysore  
 V K Parvath Kutty, P O. Moovattupuzha, N Travancore

**KARACHI.**

Laxmi Watch Company, Ranch-hore Lines, Karachi  
 London Watch Co, 986 to 988, Elphinstone Street, Karachi

**LAHORE**

American Watch Co, Anarkali, Lahore  
 K C Raj & Co, Anarkali, Lahore  
 Kohan Chand & Co, Ltd, Anarkali, Lahore  
 Rahat Watches Co, Chamberlain Road, Lahore  
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**MADRAS CITY**

Ahmed Watch Co, 43, Rattan Bazar, Madras  
 E A Watch Co, 28-30, Rattan Bazar Road, Madras  
 Ganji & Sons, 55, Rattan Bazar, Madras  
 Namath Watch Co, 37-38, Rattan Bazar, Madras  
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S Iogannadha Row, Chicacole Road, Veeiaghattam, Vizag Dt  
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Jan Muhammed & Sons, Mall Road, Simla  
L Bali Ram, Ambala  
L Beniram, Ludhiana.  
Punjab Watch Co, Sialkot City

Union Trading Agency, Pulana Bazar, Ludhiana

### SIND

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### UNITED PROVINCES.

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Ch Gian Chand, Roorkee  
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Lall Bahadur & Sons, Chowk, Fyzabad  
M Kazim & Co, Lucknow  
Madan Watch Co, Sadar Bazar, Fatehgarh, Dt Farrukhabad  
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nagar, B N Rly (Manufac-

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60, Sukdar Bagan Street,  
Shyam Bazar, Calcutta

Kennicot Water Softener Co,  
Ltd, 4, Fanlie Place, Calcutta

Pateison Engineering Co, Ltd  
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S M Dey & Co, 51-3D, Strand  
Road, Calcutta (1st Floor)

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nagore, Dacca

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Calcutta

Bengal Waterproof Works, Ltd,  
Panhati, 24-Paigs (Duck Back  
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Municipal Market, Calcutta

Rash Behary Dey & Sons, 82, Old  
China Bazar Street, Calcutta

Bombay Waterproof Cloth Mfg  
Co, Kala Chowkie Road,  
Chinchpokli Bombay

Roberts McLean & Co, 101, Clive  
Street, Calcutta

East India Industries, (Madras)  
Ltd, 498, Mint Street P T,  
Madras

Sankei & Co, 332, Sree Gopal  
Mullick Lane, Calcutta

B S Dass, 1041, Serpentine  
Lane, Calcutta

Standard Oil Cloth Co, Puana  
Paltan, Ramna, Dacca

Hari Ram & Co, 171, Harrison  
Road, Calcutta

Structural Waterproofing Co,  
211, Dover Road, Calcutta

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Bombay

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Barlas Brothers, Subzi Mandi, Lal  
Masjid, Delhi

Hazel & Cedar, 4, Kaloo Ghosh  
Lane, Calcutta

Burmah-Shell Oil Storage & Dis-  
tributing Co, of India Ltd,  
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Gauhati

#### BENGAL.

Caider Factory, Kalimpong, Dar-  
jeeling  
Crown Wood Mfg Co, Baidyabati,  
Hooghly  
K C Nath & Co, 25, Naba-  
krishna Guin Lane, Serampore,  
Hooghly

#### BOMBAY CITY.

Apollo Engineering Co, 84, Apollo  
Street, Fort, Bombay  
Bancroft & Co, (India), Ltd, Ta-  
maund Lane, Fort, Bombay  
D Vithaldas & Co, 74-76, 1st  
Pathan St, Golpitha, Bombay  
H M Mehta & Co, Apollo Street,  
Fort, Bombay  
Healds & Reeds Mfg Co of India,  
Ltd, Raja Bahadur Motilal  
Mansions, 28, Apollo Street,  
Fort, Bombay  
Hindusthan Loom Co, Ltd, 5,  
Bank Street, Fort, Bombay  
(Looms)  
Indo British Trading Bureau,  
7-10, Elphinstone Circle, Fort,  
Bombay

Salvation Army Loom Depart-  
ment & Industries Sankil St,  
Byculla, Bombay

#### BOMBAY PRESIDENCY.

All India Khadi Mandal, Sabai-  
mati, Ahmedabad  
Desai Handloom Factory, Desai  
Vago, Nadiad, Kana  
Jivanlal Chimanlal & Co, Raja  
Mehta Street, Ahmedabad  
(Loom Accessories)  
M A Roy & Bros, Kalupur Post  
No 6, Ahmedabad  
Tikekar L V & Co, Ltd, Tikekar-  
wadi, Sholapur.

#### CALCUTTA

Britannia Engineering Co, Ltd,  
28, Dalhousie Square, Calcutta  
M B Bros & Co, 41, Ratu Sical  
Lane, Cal (Picking Bands)  
Marshall Sons & Co (India), Ltd,  
99, Clive Street, Calcutta  
W H Brady & Co, Ltd, Mercan-  
tile Bldgs, Lall Bazar, Calcutta,  
Church Gate Street, Bombay

#### PUNJAB

Ludhiana Loom Builders, Lall  
Masjid Street, Ludhiana  
S Patoke, Beat 3, Batala

#### UNITED PROVINCES

Handloom Weaving Supplies Co,  
94, Baradeo, Benares City

### WEAVING ESTABLISHMENTS.

(Also see Cotton Mills)

Abdul Rahaman Weaving Fac-  
tory, Nasirgunj, Shahabad

Ashok Weaving Works, P O  
Chovva, N Malabar

Bagerhat Co operative Weaving  
Union Ltd, 77-1, Harrison Road,  
Calcutta

Balkrishna Weaving Co, Cann-  
nore, Malabar

Bankura Co operative Industrial  
Union, Bankura

Benjamin Weaving Factory, Ben-  
jamin Rd, Ludhiana

Bhagavan Weaving Factory, Hos-  
kote, Bellary

Bikram Cotton Factory, Aniwala,  
Montgomery Dt

Buahanpur Handloom Factory,  
Buahanpur

C Aaron & Sons, Pappinissell,  
Malabar

Central Weaving Factory, Kun-  
cha Neel, Meerut City

Chatia Cottage Industrial Works,  
Serampore, Hooghly

Coimbatore Sewing & Weaving  
Co, Aini, N Arcot

**MANURES & THEIR APPLICATION** a useful handbook for all amateur  
gardeners. As. 5. Industry Book Dept., Shambazar, Calcutta

Coimbatore Weaving Syndicate, Coimbatore  
 Devi Vilasam Weaving Factory, Olavanna P. O., Calicut, Malabar  
 Dhanalekshmi Weaving Works, P O Kakkat, Madras Presy  
 Dharanappa's Weaving & Dyeing Factory, Mandya, Mysore  
 Godavary Spinning & Weaving Mills, Pandalapaka, Godavari  
 Gopal Krishna Weaving Works, Thalag, Cannanore, N Malabar  
 Government Weaving Institute, Bangalore City.  
 Hansi Weaving Factory, Delhi Gate, P O Hansi, Dt Hissar  
 Hattersley-Hindusthan Weaving Co., Ltd., 5, Bank St, Bombay  
 Hattersley Mill Co., Rehman Bldg, Churchgate St, Bombay  
 Indian Weaving Factory, Hansi, (Dt Hissar)  
 Japan Cotton Factory, Saigodha  
 Jayalaxmi Powder Loom Factory, Mysore City  
 K C Sankaran & Bros, Weaving Establishment, Azhikode Bahapatam, N Malabar  
 Kadri Weaving Factories, Mangalore, Kanara  
 Kannikuparameswari Weaving Factory, Mysore City  
 Kerala Weaving Co., Chovva, Cannanore, Malabar  
 Khalsa Cotton Factory, Saigodha  
 Kharak Singh Rattan Singh, Saigodha, Punjab  
 L Sheodathai Kaluram, Fatehabad, Hissar  
 Lakhiram Charan Das, Jhang, Punjab  
 Ludhiana Loom Builders, Lall Masjid Street, Ludhiana  
 Mafatlal Fine Mills, Vijaipore Road, Navsari, Surat  
 Mahachand Ram Kishan, Jhang, Punjab  
 Manarwa Textile Mills, Near Ada Tamtam, Jhang  
 Mau Weaving Factory, P O Mau-nath Bhanjan, Azamgarh Dt  
 Model Industries, Davalbagh Agra  
 Mohd Din Ham Din, Saigodha

Monohara Weaving Works, Chovva, N Malabar  
 Moradabad Spinning & Weaving Mills Co., Ltd, Moradabad  
 Nawbhaiata Weaving Co., Chovva, N Malabar  
 Pince Weaving Works, Cannanore, Malabar  
 Raja Rajeswary Weaving Estt., Azhikode, Bahapatam, Malabar  
 Ram Govind Weaving Estt., Bahapatam, Malabar  
 Ram Swaroop Weaving Factory, Harihaigunj, Nasugunj, Shahabad  
 Rangiah's Weaving Factory, Mysore City  
 Shaikh Cotton Factory, Saigodha  
 South Indian Silks Limited, Gudiyatam, N Arcot  
 South Indian Weaving Works, Kumbakonam, S I Ry  
 Sree Kumari Weaving Estt., Puthiyatheeru, Bahapatam, Malabar  
 Sri Anjaneya Weaving Factory, 15th Cross St, Cubbonpet Bangalore City  
 Sri Krishna Weaving Mills, Subramanyapuram, Bangalore  
 Standard Cotton & Silk Weaving Co., Calicut, Malabar  
 Subramania Vilas Weaving Estt., Bahapatam, Malabar  
 Sundareswara Weaving Estt., Chovva, N Malabar.  
 T S Bros, Weaving Establishment, Palikumu, Cannanore  
 Taj Mahal Weaving Factory, Bahapatam, Cannanore  
 Textile Wooden Stores Supplying Co., Manekial Road, Navsari, Baroda B —41, Bruce Street, Bombay & Kapasia Bazaar, Ahmedabad  
 Tinnevelly Mills Co., Ltd, Ambasamudram, Tinnevelly  
 Tinnevelly Textiles Ltd, Kolipatti, Tinnevelly  
 Vajjanabiah's Loom Factory, Mysore City  
 Venkatasubramanyam Weaving Factory, Mysore City  
 Victoria Weaving Establishment, Sivai, Cannanore, Malabar

**THE RETAIL TRADE**—an exposition of Methods that build up Retail Trade Price Re 1/4 Industry Book Dept., Shambazar, Calcutta

- Coronation Stores, 4, Circular Rd., Calcutta  
 Cosmopolitan Stores, 114-43, Hazra Road, Calcutta  
 Craig & Co., 30, Bentinck Street, Cutler Palmer & Co., 4, Rampart Row, Fort, Bombay Also Cal  
 D Cowasji & Co., Ltd, 20, Fort Street, Fort, Bombay.  
 D P Baria & Sons, Opp Police Station, Byculla, Bombay  
 Darasha Palonji & Co., Rajkot Pura, Kathiawar  
 Elite Provision & Wine Stores, James Street, Secunderabad, Deccan  
 Empire Stores, 60-C, Chowringhee Road, Calcutta  
 Federal Stores, 46, New Park St., Calcutta  
 G C Shaw & Co., 82, Bowbazar Street, Calcutta  
 G F Kellner & Co., Ltd, 32, Chowringhee, Calcutta  
 Ganesh Lal & Sons, Sojati Gate, Jodhpur  
 Great Eastern Stores Ltd, 30, Chowringhee Road, Calcutta  
 Grierson's Wine Agencies, 2, Clive Ghat St, Calcutta  
 H C Chowdhry, Rajkot C S, Kathiawar  
 H H Wadia & Sons, Porbandar  
 India International Co., Ready-money Mansion, Churchgate St., Bombay  
 Indian Distillery, Anwaingunge, Cawnpore  
 J Dresh & Co., Band Rd, Delhi  
 J E Bilimoria, King's Way, Nagpur  
 J Mouton & Co., Connaught Place, Delhi  
 James Wright Ltd, 85A, Ripon Street, Calcutta  
 Jamsetji & Co., Mall Road, Cawnpore  
 Jayantilal Tibbhoval, Nagar Chakla, Jamnagai, Kathiawar  
 Kackkar & Sons, John Bazar, Jaipur City  
 Kelly & Co., Kaisarganj, Ajmer.  
 King & Co., Sunicoppa, Coorg  
 Kishen Lal & Co., Dehra Dun  
 M Bazonji & Co., Rajkot Pura, Kathiawar  
 M M Mody, Opp. Alfred High School, Rajkot, Kathiawar  
 Mackenzie Lyall & Co., 5, Mission Row, Calcutta  
 McDowell & Co., Ltd, Asian Building, Ballard Estate, Bombay.  
 N. C. Shaw & Co., 123, Canning Street, Calcutta.  
 N. S. Kuppusami Naidu, Pandi Road, Villupuram  
 Piyarelal Bhagwan Dass, Muttra Cantt.  
 Puri Bros., Station Rd, Jodhpur  
 R G. Shaw & Sons Ltd, 59, Dhurumtola St, Calcutta  
 R R Mehra Bros., Multee, Punjab  
 Radhey Ramanlal & Sons, Hospital Building, Bareilly, U P  
 Rai Sahib Bhola Ram & Sons, Mori Gate, Delhi.  
 Ralla Ram Kapur & Co., Railway Road, Jullundur City  
 Ram Bali Baijnath, Meerut.  
 Ramchandia Balabux, Baia Bazar, Sambhar Lake  
 Rewa State Distillery, Robertson Road, Satna, Rewa State  
 Rustomji Hiji, Civil Lines, Jubbulpore  
 Rustomji P Patel & Son, 2, Bagmati Road, Jamshedpur, Bihar  
 S D Billimoria & Co., Jetpura, Chanda  
 S Lloyd & Co., Rash Behari Avenue, Calcutta  
 S P Shaw & Bros, 25-B, Park St (Karnani Mansion), Cal  
 Satis Chandia Shaw, 16, Grand Trunk Road, Howrah  
 Shahpuri Jivaji, Yeshwant Bazar, Indore  
 Shaw Warren & Co., 148, Bow-Bazar Street, Calcutta  
 Spencer & Co., Murree, Punjab  
 Spencer & Co., Ltd, 19-A, Alipore Road, Delhi  
 Srivastava Bros, Chowk, Bahraich  
 T Motandas & Co., Bunder Road, Post Box 25, Karachi  
 Union Trading Co., Sadar Bazar, Rajkot C S, Kathiawar

"Sketches of Indian Industries" discusses industrial situations and industrial ideals. Vol. I & II. Re. 1/4 each. Industry Book Dept., Calcutta

**WIRE NAIL MANUFACTURERS.**

Calcutta Wire Nail Co, 12, Kalaikai Street, Calcutta

Indian Wire Nail & Products Co Ltd, Tatanagar,  
Shunmugam & Co, Fort, Erode

**WIRE & WIRENET DEALERS.**

A A Dehgamwala, 58, Khokha Bazar, Bombay

A & J Main & Co, Ltd, 10, Clive St, Calcutta (Woven wire)

Balmer Lawrie & Co, Ltd, 103, Clive Street, Calcutta

Bengal Wirenetting Factory, 71 Clive St, Calcutta Factory —16-B, Sitalatalla Lane, Naikeldanga, Calcutta

Biswanath Wire Netting Factory, 84-A, Clive St, Calcutta Factory —16-B, Sitalatalla Lane, Naikeldanga, Calcutta

Bombay Steelwire Products Co, Lal Chumney, Lamington Road, North, Bombay 4

Calcutta Steel & Wire Agency, P162, Southern Avenue, Cal

Calcutta Wirenetting & Engineering Stores, 18, Raja Woodmunt Street, Calcutta

Chatui Bihari & Bros, Pala Sahibabad, Aligarh, U P

Electric Engineering Co, Old Gun Carriage Factory, Colaba, Bombay

Latest Electric Welding Works, Doctor Building, 25-26, Kumbharwada 6th Lane, Bombay

New Eastern Trading Co, Ranjit Road, Jamnagar, Kathiawar

Oxy-Acetylene Welding & Metal Cutting Co, Ltd, 62, Hazia Rd, Calcutta

Chumanlal Vadilal & Co, Abdul Rehman St, Bombay

Chunnilal Hemraj, 70 Clive Street, Calcutta

Delhi Sheet and Wire Works, New Road, Delhi

Devidas Steel & Wire Works, Karachi

Dutt Bros & Co, 82, Clive Street, Calcutta

Eastern Wire Cloth Co, 44, Clive Street, Calcutta

Gujarat Metal & Wire Supplying Co, Ltd, 42, Lamington Road, Byculla, Bombay

Indian Cable Co, Ltd, 9, Hare St, Calcutta (Copper Weld)

Indian Wire Netting Factory, 24, Sastitala Road, Naikeldanga, Calcutta

Jayant Metal & Mfg Co, 152, Lohar Street, Bombay

Kedarnath Mfg Works, 94, Baiddeo, Benares City

R Wright & Partners, Ltd, New Delhi (Galvanised Iron Wire)

S C Dutta & Co, 14, Sitalatalla Lane, Naikeldanga, Calcutta

Salehbhoy Sarafally Bhagat, 98, Sarang St, Bombay 3

Shitalnath Ramkumar Jain, Rawatpara, Agia

W Evans & Co, Ltd, 3, Mangoe Lane, Cal (Wire Ropes)

**WOOD WORKS.**

Calcutta Wood Works 4, Doctor Jagobandhu Lane, Calcutta

D M Keel & Co, 22, Lamington Road, (North) Lal Chumney, Bombay

Ganga Woodworks & Sewing Mills Lahore Cantt

Kothari Saw Mills Reay Road, 110, Tank Bunder, Bombay

P K Sett & Co, 3, Sri Hari Ram Goenka St, Calcutta

Reliance Wood Works, 1 Radha Kristo Sett St, Calcutta

Shree Anandomoyee Timber Works, 17A, Kahi K Tagore St, Calcutta

Sree Bajrang Timber Works 101, Corporation St, Calcutta

Methods of Imports and Exports are discussed in full in **TRADER'S MANUAL** Re 1/4 Industry Book Dept, Shambazar, Calcutta



### WOOL MERCHANTS.

**A. N. Malik & Sons, J/246,**

Arya Moholla, Rawalpindi  
Baboo Mohd Ali, New City,  
Etawah.

Bali Mall Nawal Kishore, Pampat  
Bikaner Woollen Press, Industrial  
Area, Near Rly Stn, Bikaner.

Budh Raj Daga, Meita, Jodhpur  
Chaudhry & Co, Beadon Road,  
Lahore

D S Bist & Sons, P O Beirag,  
Dt Almora

Deomal Pokardass, Shikarpur,  
Sind

Dhanajmal Tulsidas Nanoomal  
Virbhandas, Beawar (Br :  
Bombay, Kekri & Shikarpur)

Dhariwal Magraj Jawanwal,  
Mahamundi, Jodhpur.

Dinanath Gyasial, Gwahar

Doongusee & Sons, Bombay Ba-  
zar, Karachi B —59, Forbes  
St, Fort, Bombay

Dossa & Co, Esmail Bldg, Horn-  
by Road, Bombay

E B Bros & Co, 3, David Joseph  
Lane, (off Canning St), Cal.

Eastern Wool Trading Co., Nav-  
sari Bldg, Outram Road, Fort,  
Bombay

Godhmal Maganmal, Mewari  
Bazar, Beawar, Meiwara Dt

Haji Mahd Ishaq, H Noor Ah-  
med, Saidai Bazar, Delhi.

**Haji Vallimohomed Ali-**  
**mohomed & Co.,** P O Box

No 44, Rajkot, Kathiawar.

Kamamal Dahi Chand, Mewari  
Bazar, Beawar, Meiwara Dt  
Kaim Bux & Elahi Bux Bros,  
58-3, Canning St, Cal

Kasamali Esmail, Esmail Build-  
ings, Hornby Road, Bombay.  
Br —Fazilka, Lahore, Rajkot,  
Beawar, Cutch & London

Khaitan Sons & Co, 1, Commer-  
cial Bldgs, Clive St, Cal

Lakhmichand Kaluam, Kalm-  
pong

Man Mal Chopra, Pali Jodhpur

Md. Subhan Mohamed Zahoor,  
Qazipura, Mahoba

Mithanlal Nanumall, Panipat.

Modh Yahya, Sharif-ul-Hasan,  
Etawah

Om Press Co, Fazilka

Ram Press Co, Fazilka

S Chetandas Ram Chand, Wool  
Market, Fazilka, Punjab

S Jiwana Alha Diya, Narnaul  
(PS)

Seth Kundanmalji Lalchandji,  
Beawar.

Sethia Bandhu Ltd, Woolpress  
Bldgs, Industrial Area, Bika-  
ner, Rajputana

Tilakraj Jain & Bros, Jammu  
Tawi, (Kashmir State).

Usman Jusab Unwala, Munsar  
Road, Viramgam, Ahmedabad

West Patent Press Co., Fazilka

Wool Stores, Ludhiana

### WOOLLEN GOODS DEALERS.

#### BALUCHISTHAN.

Issar Wool Stores, Masjid Road,  
Quetta

#### BENGAL.

Kalukishna Bayan Mandir,  
Subhadya, Dacca

Musa & Rohamali, Chowbazar,  
Daijeeling

#### BOMBAY CITY.

Abdoola Joosab Calcuttawalla &  
Co, Khoja Mohalla, Bombay

B Mahendralal, Dwaikesh Guly,  
Mulji Jetha Market, Bombay

Bhagvandas Tricumdass, Govind  
Chowk, Mulji Jetha Market,  
Bombay

Haroon Adam & Co, Sun Bridge  
House, 11, Zakeria Masjid,  
Bombay

Ratilal Bhikhabhai & Co, Gur-  
gaon P O, Bombay 4

#### BOMBAY PRESIDENCY.

Balabhai Mahanlal, Shekhs Pada,  
Ahmedabad

Bhorabhai Mohanlal, Sankrishneri,  
Ahmedabad

#### CALCUTTA.

Joharmal Srinaiayan, 16, Pagaya-  
patti, Calcutta

#### INDIAN STATES.

Abdul Cureem & Sons, 29, Chick-  
pet, Bangalore City

**DISINFECTANTS & ANTISEPTICS** gives full details of preparing all  
sorts of insecticides & medicated cottons. Re. 1/12. Industry, Calcutta.

B K Subbay & Sons, Soumash-trapet, Bangalore  
 Damodaidas Nagory & Bios, Lashkar, Gwalior  
 Gashlal Vishenjee & Sons, Sri Ranbugun, Srinagar, Kashmir  
 H Galappa & Co, Chickpet, Bangalore City  
 K Anantha Rajah & Sons, Post Mandya, Mysore Dt  
 Misrilal Parasmall, 10, Dewan Surappa Lane, Chickpet, Bangalore city  
 Sham Lal Razdan & Bros, Raj-ul Kadal, Srinagar (Kashmir)  
 Sou Bros, 1st Bridge, Srinagar, Kashmir  
 Sultanali & Co, Dewan Surappa Lane, Chickpet, Bangalore City

**KARACHI.**

Tattersfield Co, McLeod Road, Karachi

**WOOLLEN GOODS MANUFACTURERS.****BENGAL**

Crown Woollen Mills, Dakshin-dari, 24-Paigs  
 Ghatabari Baoikhola Wvg & Dyeing Factory, P O Ghatabari, Pabna Dt

**BIHAR.**

Superintendent, Central Jail, Bhagalpur (Blankets, Rugs Furniture, etc)

**BOMBAY CITY.**

Indian Woollen Mills Haines Rd, Mahaluxmi Bombay 11  
 Raymond Woollen Mills Ltd, E D Sassoon Bldg Dougall Rd, Ballard Estate, Bombay  
 Sir Shapurji Broacha Mills Bombay

**CALCUTTA**

Punjab United Trading Co, B23, College Street Market, 1st Floor Calcutta

**INDIAN STATES**

Bangalore Woollen Cotton & Silk Mills Ltd, Bangalore  
 Bikaner Woollen Press, Sethna Bldgs, Industrial Area, Railway Station, Bikaner  
 H R Woollen Factory, Jaipur  
 Mahalaxmi Woollen & Silk Mills Ltd, Yeswanthapur, Bangalore

**LAHORE**

Tilak Hosiery, Pipalmandi, Lahore

**MADRAS PRESIDENCY.**

Woollen Matt, Hampankatta, Mangalore, S Kanara

**PUNJAB.**

Ganesh Lal Duni Chand, Bharat House, Panipat  
 Indian Woollen Stores, Karmon Deori, Amritsar

**UNITED PROVINCES**

E Sefton & Co Ltd, Mirzapur  
 Karmanchal Bhandal, Mall Road, Almora  
 Sitaram Fakirchand, Bagh Muza-ffarkhan, Agra  
 Zakari Brothels, Mirzapur

Shri Dinesh Woollen Mills Ltd  
 Padia Rd, Baroda  
 Shri Karan Singh Woollen Mills Ltd Srinagar

**KARACHI.**

Bombay Woollen Manufacturing Co, Ltd, Agents, Anglo-Siam Corporation Ltd, Karachi

**MADRAS PRESIDENCY.**

Someshwar & Co, Hindupur, S I B —Fairfield (Tiravancore) & Meppali (Wynaad)

**PUNJAB**

Barlas Woollen Goods & Shawls Factory, Katriabhai, Kucha Sheikhan, Amritsar  
 Bharat Industrial Co, (Regd), Amritsar  
 Chand Hosiery Factory, Ludhiana  
 Jindals Ltd, Fort Rd, Ludhiana.  
 Model Woollen & Silk Mills, Amritsar  
 Mohd Hayat Mohd, Ali Woollen Mills, Amritsar  
 New Egerton Woollen Mills Co, Dhariwal  
 Punjab Woollen Agency, Bazar Sabunan, Amritsar  
 Rai Bahadur Knitting Works, Ludhiana  
 Shahazada Hosiery Works, Ludhiana

Pyrotechnic Matches & Their Preparation are dealt in "Safety Matches & Their Manufacture" Rs 3/-. Industry Book Dept, Calcutta

Swadeshi Woollen Mills, Amrit-sar.

#### UNITED PROVINCES.

Barjmath Bankeybehari Lal Wool-len Mills, Lalbankey St, Cawn-pore

Bharat Weaving Factory, Khatau-li, Muzaffarnagar

British India Corporation Ltd, Cawnpore

Cawnpore Textile Ld, Cawnpore

Cawnpore Woollen Mills Co, Civil Lines, Cawnpore

Dayal Bagh Hosiery Mills, Dayal-bagh, Agra

Fancy Cloth House, Aminabad Paik, Lucknow

Model Industries, Dayalbagh, Agra

Narayana & Co, Meston Road, Cawnpore

Palnappur Wool & Cotton Works, Chitpur, Lucknow

Sh Govind Weaving Mills, Juhl, Cawnpore

Textile Mills, Dayalbagh, (Agra)

#### WOVEN & NAME LABELS DEALERS.

Delhi Silk Mills, Delhi

Dharm Vil Kapila, Alipore Road, Cagh Advertising Tape Factory, Eagle Wadi, Kurla, (G I P)

Hall & Anderson, 31, Chowringhee Rd, Calcutta

L. S. Balchandani, Fiere Rd., Karachi

Novelty Trading Co, 70, Serpen-tine Lane, Cal

Swadeshi Silk & Ribbon Mills, Maldia, Benares (Borders and Name Labels)

#### YARN MERCHANTS.

##### BENGAL.

Hazi Keramat Ali Choudhury, Kaliachak, Malda

Lakshmichand Kaluam, Kalim-pong (Woolen Yarn)

Sheokishen Piemsukh, Malda, Bengal (Also Silk Cloth)

##### BOMBAY CITY.

Ahmed Moosa Motiwala & Sons, Kolra Moholla, Tamba Kanta, Pydhownie, Bombay

Anandji Valabhdas & Co, Babu Pannalal P Jain High School Building, 1, Tamba Kanta, Bom-bay

Bhimamal Amannath, Hanuman Building, Tamba Kanta, Bom-bay

Bihari Lal Chimanlal Shah & Co, Vallabh Nivas, Tamba Kanta, Abdul Rehman St, Bombay

Bombay Yarn Exchange, Ltd, Hanuman Bldg, Tamba Kanta, Bombay

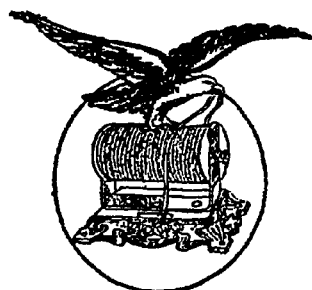
C Bulakhidas & Co, Vora's Old Bldg, 89, Tambakanta, Pydhow-nie, Bombay

C Nathalal & Co, Waknis Bldg, Tambakanta, Pydhownie, Bom-bay

Charandas Durgadas, 99, Tamba-kanta, Bombay

Chimanlal Mohanlal & Co, Hanu-man Bldg, Tambakanta, Py-dhownie, Bombay

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 Dharamshi Raghavji Gandhi, Sutai Bazar, Tamba Kanta, Bombay  
 Dulomall Gowaidhandas, 69, Nakhoda St, Bombay  
 Haji Hasan Dada, 11-15, Tara Lane, Kolsa Moholla, Bombay  
 Indian Yarn Supplies Depot P O Box No 770, Bombay  
 Jannadas Bios, 37, Tamba Kanta Sutai Bazar, Bombay  
 Kassim Haji Tayeb, 101, Tamba Kanta, Bombay  
 Khoja Mithabhoy Mathoo & Co, Hanuman Building, Tamba P O, Pydhonie, Bombay 3  
 Vafatlal Ramniklal, Javeri Gunman Bldg, Tamba Kanta, Bombay  
 Mathuradas Maganlal, Hanuman Bldg, Tamba Kanta, Bombay  
 Narandas Topal, Tamba Kanta, Pydhonie, Bombay  
 P N Mehta & Co, Sassoon House, 50, Church Gate Street, Bombay  
 Popatlal Gidhanilal & Co, 49, Apollo St, Bombay  
 Ramanlal Chhabildas Wankar Building, Tambakanta Pydhonie, Bombay 3  
 Ratilal Bhikhabhai & Co Gurgaon P O, Bombay 4  
 Sankalchand G Shah & Co Hanuman Building, Tambakanta P O, Pydhonie Bombay  
 Sewaram Gidhanilal Tambakanta, Pydhonie, Bombay

**BOMBAY PRESIDENCY**

Amin Patel & Co Opp Railway Station, Ahmedabad  
 Amratlal Bhuiabhai Gajwala, Gopipura, Songhadiawad, Surat  
 Chunilal Kaushaldas Shah, Maneck Chowk, Ahmedabad  
 Goidhandas Dalsukhlam Railwaypura, Ahmedabad  
 H L Bevinikatti, Gadag, Dt Dhawai  
 Hargovandas Luvimchand, Maneck Chowk Ahmedabad  
 Jagannath Tharoomal, Raviwasi Peth, Poona 2

Jam Mills, Sholapur.  
 Jeysinghabhai Kaldas, Ratanpole, Ahmedabad  
 Lalbhai Bhikhabhai & Bros, Sakai Bazar, Ahmedabad  
 Laxmi Cotton & Manufacturing Co, Sholapur  
 P M Hathi Singh & Co, Hathisingh Vadi, Ahmedabad  
 Pitambaradas Achratlal, Maskati Market Ahmedabad  
 Ramanarayan Rajmal Rathu Mangalwaripeth, Palthagath, Sholapur  
 Rampratap Kalooram, Sakharipeth Sholapur  
 Seth Panalal Umabhai, Richey Rd, Near Jain Derasai Ahmedabad  
 Tikamlal Chamanlal, Manek Chowk, Ahmedabad

**CALCUTTA**

Bengal Silk Trading Co, 34, Lower Chitpore Rd, Calcutta  
 Chunilal Chhaganlal, 71 Cross St, Calcutta  
 Indian Yarn Trading Co, Ltd, 137, Cotton St, Calcutta  
 Indo Burma Silk Trading Co, 34, Lower Chitpore Rd, Cal  
 Inland Agents, Windsor House, Bentinck St, Cal  
 Jwandas Chunilal & Co, 194, Cross St, Cal  
 Karim Bux & Elahi Bux Bios, 58-3, Canning St, Cal  
 Mohini Mohan Banerjee, 19A, Cross St, Cal  
 Mooljee Gidhardas, 160 & 176, Cross St, Cal  
 P N Mehta & Co, 156, Radha Bazar St, Cal  
 Vasanjee Topun Madhowjee & Co, 5-1, Portuguese Church St, Calcutta

**DELHI.**

Mid Safee, Mid Khalil Sadar Bazar, Delhi  
 Mohamed Shafi Tehvaley, Sudder Bazar, Nutkow-wali Galli, Delhi  
 Rajnath & Co, Ltd, Cloth Market Delhi

**INDIAN STATES**

All India Spinners' Association, Srinagar, Kashmir.

Up-to-date methods of production, preservation and marketing of fruits are given in ALL ABOUT FRUITS Rs. 2/8. Industry Book Dept, Cal.

B Venkat Rao S Sajjan Rao, Avenue Rd., Bangalore City.  
 Bhagwanlal Chhaganlal, Gogo Gate, Bhavnagar, Kathiawar  
 C Venkata Munniah Setty, Doddapet, Bangalore City  
 S V Srinivasa Setty, Avenue Rd., Bangalore City  
 Silk Twisting & Dyeing Factory of Khoday Eshwarsa, 11, Race Course Rd., Bangalore City  
 Sri Krishnarajendra Mills Ltd., Post Box No 101, Bangalore Road, Mysore

**MADRAS CITY.**

Baboothmal Khanmal, 17, Luckmidas St, Madras  
 Devsee Moolchand Sha, 465, Mint St, Madras  
 Gocoola Dass Jumna Dass & Co, 229, China Bazar Road, George Town, Madras  
 Haji Jiva Haji Khamisa & Co, 26, Anderson St, Madras  
 Hoosan Kasam Dada, 9-10, Anderson St, Madras  
 Jivraj Topun & Sons, 13, Luckmidas St Park Town Madras  
 Keshavial & Co, 21, Raghunayakulu St, P. T., Madras.  
 M K Balakrishna & Sons, 460, Mint St Madras  
 M P V Sundaramma & Co, 464, Mint St, Madras  
 Moolchand Devichand, 88, Nainappa Naick St Madras  
 Mothun Sankailal 77, Narayana Mudali St, Madras  
 S K Manne Chetty, 462, Mint St, Madras  
 Sankalchand G Sha & Co, 472, Mint St Madras  
 V G Seshachala Chettiar, 499, Mint St, Madras

**MADRAS PRESIDENCY**

A H Sundaragopala Iyer & Sons, East Veli St Madras  
 C R Appu Iyer & Sons, Big Bazar Palghat Malabar  
 Chimanlal A Parikh, South Mas St Madras  
 Jayaram Bolishwar & Sons, Pondicherry  
 K K Algaaswami Iyer & Sons, 5th Hanuman Koil St, Madras

K Subbiah Konai & Bros, Melapalayam, Thimelvely, Dt Madras  
 K V Anganna Chetty, 277, Edyar St, Coimbatore  
 Koppula China Venkanna, Gollapole, East Godavari Dt  
 Krishna Moorthy Company, 157, South Mas St, Madras  
 M P. Venkatachalapathy Iyer & Sons, Manjanakara St, Madras  
 N L Srinivasa Iyer, New Cinema, Madras  
 P K D R Swamy & Co, Ramnad Rd, Madras (Coloured)  
 P Ramalinga Mudaliar & Sons, Aini, N Arcot  
 Pannalal Ramdayal Chhindak, Banhat, Via-Kudchi, M. S M Rly  
 S Beermiah Chetty, Big Bazar, Palghat, Malabar  
 S K Appavoo Chetty, Rangasamy Chetty, Mandy St Erode  
 S S Ramudniye & Bros, Ramnad Rd, Madras (Coloured)  
 Shah Jesraj Chunilal, Sukkaraipet St, Coimbatore  
 Vetcha Rama Lingaish Sons, Rajahmundry, Godavari

**PUNJAB.**

D C Mehra & Co, Guru Bazar, Amritsar  
 Inde Singh & Co, Lyallpur  
 H R Luxman & Co, Katra Bagh Singh, Amritsar  
 Pritam & Sons, Bazar Haveli Jamadar, Amritsar  
 R C Bansal & Co, Katra Ahluwala, Amritsar  
 R D Aggarwal & Co, Dewan Sukhdial Street, Near Bagh Jallianwalla Amritsar  
 Woollen Goods Trading Co. Amritsar

**UNITED PROVINCES**

Alla Bux Mohd Shafi Dhampan  
 Haji Sajit Hussain Mahoba  
 Kanhaiya Lal & Co, Said Khan Mandi Agra  
 L N Gadodia & Co General-gunge, Cawnpore  
 Lalbhai Bhikhabhai Chowk, Moradabad  
 Mahabir Prasad Hanumandas, Maunathbhanjan Azamgarh Dt  
 Mittal Lal Shamsunderi, Dhampur

Naraindas Gopal Dass Chatai  
Mohal, Cawnpore  
Phagulall Dalal, Hatia, Cawnpore  
Phool Chand Sutwala, General-  
gunge, Cawnpore

Ramananda and Bansidhar, Bera  
Banki  
Sheo Prasad Sheo Gopal, General-  
gunge, Cawnpore

### ZARDA DEALERS.

Ahmad Husain Dildar Husain,  
Chowk, Lucknow.

Badalram Lachminarain, H O  
Benares City B1—144A, Harri-  
son Rd, Cal & 302, Agrewada  
Kalbadevi Rd, Bombay

Bharat Zarda Factory, 46, Upper  
Chitpur Road, Calcutta Fac-  
tory—Baltiki, Howrah B1

Rajakatia, Panpota, Cal

Bihari Zarda Factory, Giridih

Birendra Shanker Bhagwat Pia-  
sad, Chowk, Benares City

D C Atar, Moti Chawk Sataia  
City

Dukharian Sao Mataprasad Gupta  
& Co., Auiangabad, Benares  
City

Durga Charan Das, 37-1-1,  
Canning St, Cal

Fakhr-E-Hind Zarda Factory.

Thanna Jagannath, Lucknow  
Factory—Old Haideiganj,  
Lucknow

Ganga Prasad Biswanath Prasad  
& Co., Chowk, Benares

Kashi Vishwanath Co., Kabir  
Chaua, Benares City

Mahmood Ali Mashhood Ali,  
Vally Bazar, Meerut

Monmohini Kaiyalaya, 159, Mech-  
uabazar St, Calcutta

Nagendranath Dutta, Nutangunj,  
Bankura

Neck-Tie Brand Zardah Factory,  
141 Howrah Road Howrah  
(Phone Howrah 455) Show  
Rooms—57-1, Canning Street &  
210, Harrison Rd, Calcutta

S Abdul Shakoor & Co Jaipura,  
Benares City

Shajahan Patti Zarda Factory,  
32, Bagmati Rd, Cal

Shariff Perfumery Works, 14-1,  
Syed Salley Lane, Mechuabazar  
Cal Fac—26-4, Kapur Gally,  
Fakir Bagan, Howrah, Branch.  
—49-5, Lower Chitpur Rd Cal

Tambool Suravi Kaiyalaya,  
Ganestulla, Dinajpur

### ZINC SHEETS DEALERS.

John Dickinson & Co, Ltd, 6, S Nagindas & Co, 74, Abdul  
Clive Row, Cal Rahman St., Bombay



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**ZARDAH FACTORY,**  
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# TRADE DIRECTORY OF NEPAL

## AERATED WATER MANUFACTURERS & DEALERS

Joti Raj Ananda Raj, Nepal Syrup Factory, Sahani Tole, Lalitpore  
Kul Bahadur, Nepal Motor Works, Lajanpat, Kathmandu  
Mahantlal Sunderlal Joshi, Bhe-dasingh Tole, Kathmandu

## AGENTS, CLEARING.

Beharilal Madanmohan, Tripureshwar, Kathmandu, Head Office —28, Strand Road, Cal  
Bekharatna Kularatna Sakyavansa, Nagbahal, Ilhane, Lalitpore  
B1 —78 Cross Street, Cal  
Haishanath & Bros, Tripureshwar, Kathmandu Calcutta Office —Upper India Clearing and Forwarding Agent, 2A, Mission Row, Calcutta  
Jibnath & Bros, Kobahal, Lalitpuri Calcutta Office —116-1-1, Harrison Road, Calcutta

## AGENTS, FORWARDING.

Beharilal, Madanmohan, Tripureshwar, Kathmandu Head Office —28, Strand Road, Cal  
Haishanath & Bros, Tripureshwar, Kathmandu Calcutta Office —Upper India Clearing & Forwarding Agents, 2A, Mission Row, Calcutta  
Janaklal Siddhinaraj Bana, Birta Bazar, Bugunj & Raxaul  
T Motiman Mohandas, Birta Bazar, Bugunj B1 —Amlekhgunj  
Theka Malchalan Adda, (Government), Kathmandu & Bugunj

## ARTWARE MANUFACTURERS & EXPORTERS

Haisharaj Naisimharaj Sakyavansa, Ilhane, Lalitpore and Juddha Sadak, Kathmandu  
Punvrajoti Asakaji, Josinani, Ilhane, Lalitpore

Siddhi Naisingh, Haishapati, Sakyavansa, Thaina, Ubahal Tole, Lalitpore

## ASBESTOS (CRUDE) EXPORTERS & DEALERS

Haishanath Bros, 68, Tripureshwar, Kathmandu B1 —2A, Mission Row, Calcutta

## ASTROLOGERS.

Sunya Bhakta Joshi, Jyotish Kalyalaya, Thahuty, Kathmandu

## BANKS

Nepal Bank Limited, Juddha Sadak, Kathmandu Agents at Calcutta, London, etc

## BATTERY MANUFACTURERS & DEALERS

K Govind Das, Gopal Das, The Nepal Dry Battery Manufacturing Co, Jhochhen Tole, Kathmandu

## BETEL-LEAF IMPORTERS & DEALERS

Bahram Baram, Asan Tole, Kathmandu  
Kashiram Balaram, Mangal Bazar, Lalitpore  
Lachhuman Baidi, Kol Tole, Kathmandu

## BISCUIT MANUFACTURERS & DEALERS

Bhaktapore Taleju Biscuit Works, Tulachhen Tole, Bhaktapore  
Rudra Karmacharya, Talachhen Tole, Sukhuhoka, Bhaktapore

## BISCUIT IMPORTERS & DEALERS.

Bhakta Lall, 141, Makhan Tole, Kathmandu  
Bhawanbibi Singh, Dayabin Singh, Kel Tole, Kathmandu  
I B Commercial Depot, 19, Swatha Tole, Lalitpore

For practical methods of manufacturing boot polish, metal polish, etc read **PROSPECTIVE INDUSTRIES**. Re. 1/12, Industry Book Dept., Cal

Motiman Ratnaman, 13, Juddha Sadak, Kathmandu  
Nepal Oushadhalaya, Juddha Sadak, Kathmandu

### BOOKBINDERS

Bhagwan Vishnu Press, 262, Thabahl Tole, Kathmandu  
Nepal Stationery Works, Kobahal Tole, Lalitpore

### BOOKSELLERS AND PUBLISHERS

I B Commercial Depot, 19, Swatha Tole, Lalitpore  
Mahavni Chiniya Man Makhan Tole, Kathmandu  
Mandas Upasak Kamalachi Tole Kathmandu  
Nepal Dharma Book Depot, 19, Swatha Tole, Lalitpore  
Nepali Bhasha Prakashini Samity (Government Publishers), Rampokhary, Kathmandu  
Pandit Riktha Dev Sharma, Pashupati Press Fasikeba Tole, Kathmandu  
S R B Malla, Jorganesh Press Pako Pukhuidyang, Kathmandu  
Saraswati Book Depot, Juddha Sadak, Kathmandu

### BOOTS & SHOES MNFRS & EXPORTERS

(Cloth & Rubber).  
Kathmandu.

Bhakti Raj, Asan Tole Kathmandu  
Lakshmi Prasad Pradhan K, Cloth Shoe Factory, Bhotahity Tole, Kathmandu  
Maharatna Sikrikai, Tebahal Tole, Kathmandu  
Prem Vajracharyya, Makhan Tole, Kathmandu  
Sete Tuladhar, Asan Tole Kathmandu  
Tumtumbaji Dharma Ratna Kansakar, 8, Bhosiko Tole, Kathmandu  
Tumtumbaji Subha Ratna Kansakar, Kamalachhi Tole, Kathmandu  
Tutuman Tuladhar, Nepali Kapada Jutta Kaikhana, Makhan bahal and Kamalachhi Tole, Kathmandu

### BOOTS, & SHOES MANUFACTURERS & DEALERS

(Leather)

Kathmandu.

Gore Sarki, Dilhbazai, Kathmandu  
Mahamed Ishak Mahomad Afag, Thahity Tole, Kathmandu  
Waziruddin Bahiruddin Mahomad, 166, Naghal Tole, Kathmandu

### BOOTS & SHOES IMPORTERS & DEALERS (Rubber & Canvas).

Kathmandu

Bhakta Lal, Makhan Tole, Kathmandu  
Ganesh Man, Tyangal Tole, Kathmandu  
Moti Man, Ratna Man, New House, Juddha Sadak, Kathmandu

Lalitpore

Jeev Krishna, Lakshmi Krishna, Ikhalkhu Tole, Lalitpore  
Prithwi Lal Govind Lal, Thathu Tajhyal, Mangal Bazai, Lalitpore  
Ram Lachhman, Chanki Tole, Lalitpore

### BOOTS & SHOES IMPORTERS & DEALERS.

(Leather)

Kathmandu

Jahuuddin Bahiruddin, 166, Naghal Tole, Kathmandu  
Jnan Brothers, Juddha Sadak, Kathmandu  
Kashmir Shoe Store, Bhotahity Tole, Kathmandu  
Lall Bahadur Josi, Janak Lal & Co., Bhadiakali House, Kathmandu  
Mahmad Ishak Md Afak, Thahity Tole, Kathmandu  
Moti Man, Ratna Man, New House, Juddha Sadak, Kathmandu  
Naghal Shoe Store, Naghal Tole, Kathmandu  
S Afzal Shah & Bros, Thahity Tole, Kathmandu

Thick Type insertions in these pages are Profit Making—Surely.  
INDUSTRY, 22, R G Kar Road, Shambazar, Calcutta.



**BRASS & BELL-METAL GOODS  
MNFRS. & EXPORTERS****Lalitpore**

Dan Bahadur Dilli Bahadur Sakyavansa, Ihane, Nag Bahal, Lalitpore.  
 Dev Raj Sakyavansa, Nau Bahal, Chakbahal Tole, Lalitpore  
 Harsha Raj, Narsing Raj Sakyavansa, Ihane, Lalitpore  
 Mahabir & Sons, Paiko Tole, Lalitpore  
 Punyaloti Asakaji Sakyavansa, Joshinani, Ihane, Lalitpore  
 Rajman Singh, Bekha Narsing Sakyavansa, Dhalayacha, Lalitpore  
 Siddhi Narsing, Haishapati Sakyavansa, Thaina, Ubahal Tole, Lalitpore

**BRASS & COPPER IMPORTERS  
Kathmandu.**

Rajman Singh Ram Dass Joshi, 66, Kel Tole, Kathmandu  
 Ratnabir Ambairaj Shieshta, Bhimsenthana, Kathmandu

**Lalitpore**

Bhaju Krishna Dev Krishna, Ikhalakhu Tole, Lalitpore  
 Dhurjaman Singh, Kajaman Singh, Napasal, Lalitpore  
 Hiraman Suyaman Sakyavansa, Ihane, Lalitpore  
 Jeev Krishna Lakshmi Krishna, Ikhalakhu Tole, Lalitpore  
 Jit Govind Hari Govind, Doubahal Tole, Lalitpore  
 Juju Man Siddhi Man Sakyavansa, Bakunani, Nagbahal, Ihane, Lalitpore  
 Kirti Raj Kul Bahadur Sakyavansa, Nagbahal, Ihane, Lalitpore

**BRASS & COPPER WARE  
MERCHANTS****Bhaktapore**

Ram Prasad Tamang, Chasukhela Tole, Bhaktapore

**Kathmandu**

Bhaju Krishna, Deb Krishna, Juddha Sadak, Kathmandu  
 Buddha Ratna Kansakar, Asan Tole, Kathmandu

Harsha Raj Narsingha Raj, Juddha Sadak, Kathmandu  
 Jit Govind Hari Govind, 26, Juddha Sadak, Kathmandu  
 Jiv Krishna Lakshmi Krishna, Juddha Sadak, Kathmandu  
 Juju Man Siddhi Man Sakyavansa, Juddha Sadak, Kathmandu

**Lalitpore**

Juju Man Siddhi Man, Bakunani, Nagbahal, Lalitpore.

**BULLION MERCHANTS AND  
IMPORTERS**

Bahadur Sing Yapajoti, Gabahal Tole, Lalitpore  
 Chandra Bahadur, Lal Bahadur, Bhairabsthan, Makhan Tole, Kathmandu  
 Ganesh Lal, Juddha Sadak, Kathmandu  
 Kirti Bahadur, Keshari Bahadur, India Chowk, Kathmandu  
 Krishna Bahadur, Kimat Bahadur, Bhedasing Tole, Lalitpore

**BUTTONS (BRASS) MANUFACTURERS & DEALERS**

Dharma Ratna Sakyabhikshu, 149, Jhochhen Tole, Kathmandu

**CANDLES (WAX) MANUFACTURERS & EXPORTERS**

Sahu Bekharatna Karunaratna, 7, Bhosiko, Tashithu, Kathmandu

**CAP MANUFACTURERS AND  
EXPORTERS**

Ganesh Man & Sons, Nepal Cap Stores, Tengal Tole, Kathmandu  
 Master Khadga Lal, 1, Thahity Tole, Kathmandu (Woollen)  
 Surya Lal Hira Lal, 2, Juddha Sadak, Kathmandu

**CAP MANUFACTURERS AND  
DEALERS**

Bhawani Bir Singh, Dayabir Singh Kansakar, Kel Tole, Kathmandu  
 Dharmabir Singh Tarabir Singh Kansakar, Nepal Vastrakala Bhavan, Janbahal, Kel Tole, Kathmandu  
 Hiran B Bhikshu, Mangal Bazar and Bahal Tole, Lalitpore

For full process of manufacture of phenyle read **DISINFECTANTS & ANTISEPTICS**, Re. 1/12. Industry Book Dept, Calcutta.

Kanchha Gubhaju, Bahfal, Lalit-  
pore

Kaviraj Biahmachariya Bhikshu  
& Son, Bahal Tole, Lalitpore

#### **GAP ACCESSORIES IMPORTERS AND DEALERS**

Ganesh Prasad, Govind Lal, Kel  
Tole, Kathmandu

#### **CIGARETTE IMPORTERS & DEALERS**

##### **Kathmandu**

Buddhiman Udayman Rajbhan-  
dary, 55, Nhaikantala Tole,  
Kathmandu

Dr Khush Bahadur Thapa, Bisal  
nagar and Dilli Bazai, Kath-  
mandu

Himalayan Trading Co, Juddha  
Sadak, Kathmandu

Nepal Oil Store, Juddha Sadak,  
Kathmandu

Yagna Bahadur Shrestha, Chican-  
mugal Tole, Kathmandu

##### **Lalitpore**

I B Commercial Depot, 19,  
Swatha Tole, Lalitpore

Jit Govind Hari Govind, Dauba-  
hal Tole, Lalitpore

Krishna Lal, Kirtilall, Dhalach-  
hen Lalitpore

Ram Lachhman, Chanki Tole, La-  
litpore

#### **COBALT ORE EXPORTERS AND DEALERS**

Haishanath Bros, 68, Tripuresh-  
wai, Kathmandu B-2A,  
Mission Row, Calcutta

#### **COTTAGE INDUSTRIES**

Department of Cottage Industries  
(Govt), Dilli Bazai, Kath-  
mandu Sale Stores—Adarsha  
Bhandal, Juddha Sadak,  
Kathmandu

#### **COTTON PIECEGOODS IMPOR- TERS & MERCHANTS**

##### **Bhaktapore**

Dhanidhai, Bindudhai, Bansa  
Gopal, Bhaktapore

Krishnalal Bikulal, Tekha Tole,  
Bhaktapore

Krishnalal Rambhakta, Bhak-  
tapore

Lokeshman Shreeman, Bhakta-  
puri (Head Office Kathmandu).  
Rajman Singh Ramdas Joshi,  
Swammola Tole, Bhaktapore  
Ramdas Sheopiasad, Bhaktapore  
Sambha Kumari Taini Kumari,  
Bansa Gopal, Bhaktapore

##### **Kathmandu**

Bhawanibai Singh Dayabai Singh,  
Kel Tole, Kathmandu

Chunilal Harinarain, India  
Chowk, Bagbazar and Kalimati,  
Kathmandu

Dharmabir Singh & Son, Janba-  
hal, Asan Tole, Kathmandu

Lal Bahadur, Sri Prasad Raj-  
bhandary, Tyouda Tole, Kath-  
mandu

Lokeshman, Shreeman, Khila  
Tole, Kathmandu

Pushkar Rudra, Asan Tole, Kath-  
mandu

Saptabai Singh, Asan Tole, Kath-  
mandu

Shyam Krishna, Hari Krishna,  
Makhan Tole, Kathmandu

##### **Lalitpore**

Baburam Bhattacharya, Tangal  
Tole, Lalitpore

Bahadur Singh Yapajoti, Gaba-  
hal Tole, Lalitpore

Bansilal Mukundalal, Nayalakhu  
Tole & Pubahachhen, Lalitpore

Bhaju Krishna Dev Krishna,  
Ikhalkhu Tole, Lalitpore &  
Juddha Sadak, Kathmandu

Bhawanidas Bhajunarian Khadgi,  
Kumbheshwar, Lalitpore

Bhimjoti Devjoti Dhakhwa Sakya-  
vansa Dhalayacha, Lalitpore

(B- Kularatna Bekharatna  
Dhakhwa, 35, Cross St, Cal-  
cutta & Lhasa, Tibet)

Deepjoti Dharmajoti Dhakhwa,  
Nabahil Tole, Lalitpore

Ganesh Lal, Tumbahal Tole, La-  
litpore

Jit Govind Hari Govind, Douba-  
hal Tole, Lalitpore

Jiv Krishna Lakshmi Krishna,  
Ikhalkhu Tole, Lalitpore

Krishna Lal Kirti Lal, Dhalach-  
hen, Lalitpore

Ram Lachhman, Chanki Tole, La-  
litpore

For full process of manufacture of phenyle read **DISINFECTANTS &  
ANTISEPTICS**. Re 1/12 Industry Book Dept., Calcutta

Thakur Das Krishna Prasad,  
Mangal Tole, Lalitpore

**COTTON SEEDS IMPORTERS & DEALERS**

I B Commercial Depot, 19, Swatha Tole, Lalitpore

**CRAYON MANUFACTURERS & DEALERS**

Ram Beejkoochhen, Kantipore  
Chalk Manufacturing Works,  
Asan Tole, Dhalasiko, Kathmandu

**CURIO GOODS MANUFACTURERS & EXPORTERS**

**Lalitpore.**

Brata Raj Sakyavansa, Nhyafale Tole, Jyatha, Lalitpore

Deviatna Piem Bahadur Sakyavansa, Curio House, Khachhen, Nabahal Tole, Lalitpore

Harsharaj Narsinghraj Sakyavansa, Ithane, Lalitpore & Juddha Sadak, Kathmandu

Jogman Sakyavansa, Thaina, Saugal Tole, Lalitpore

Mahabir and Sons, Paiko Tole, Lalitpore

Punyajoti Asakaji Sakyavansa, Josinani, Ithane, Lalitpore

Punyaraj Kajuman Sakyavansa, Thaina, Saugal Tole, Lalitpore

Rajman Singh Haikharaj Sakyavansa, Naur Bahal, Naura, Lalitpore

Siddhi Narsingh Harshapati Sakyavansa, Ubahal Tole, Thaina, Lalitpore

**CURIO MERCHANTS**

**Kathmandu**

Hirakaji Sakyabhikshu, Tarhan Bahal, Kathmandu

Ratnabir Singh Bhimiata, Kel Tole, Kathmandu

**Lalitpore**

Debiatna Sakyavansa, Khachhen, Nabahiltale, Lalitpore

**CYCLES & ACCESSORIES IMPORTERS & DEALERS**

**Kathmandu**

Jubilee Cycle Bhandar, Juddha Sadak, Kathmandu

Mandas Upasak, Cycle Store, Kamalachhi Tole, Kathmandu

Pancha Narain Ashta Narain Manandhar, Kamalachhi Tole, Kathmandu

**Lalitpore**

Krishna Bahadur & Narayan Bahadur Chipalu, Chanki Tole, Lalitpore Also Bholahili & Kathmandu

**DAIRY PRODUCTS MANUFACTURERS & DEALERS**

Ashalal, Chochhen Tole, Bhaktapore

Indralal Pradhananga, Chochhen Tole, Bhaktapore

**DENTISTS & DENTAL ACCESSORIES DEALERS**

**Kathmandu**

Ashua Man, Naghal Tole, Kathmandu

Ghan Man, Naghal Tole, Kathmandu

Wazir Man, Thamel, Kathmandu

**Lalitpore**

Dr Nem Bahadur Shieshta, LMF, L.D Sc, Juddha Sadak & Nabahal Tole, Lalitpore.

**DRUGS & HERBS EXPORTERS & DEALERS**

**Kathmandu**

Bekharatna Karunaratna, 7, Bho siko, Tasithu, Kathmandu

Piof K N Sharma, MSc, Government Botanist, Tebahal, Kathmandu

Sahu Bekharatna Karunaratna, 7, Bho siko, Tashithu, Kathmandu

Santa Bahadur Karuna Bahadur, Bhimsenthana, Kathmandu

**Lalitpore.**

I B Commercial Depot, 19, Swatha Tole, Lalitpore

Nanda Gopal, Jagat Gopal, Jhatapole, Lalitpore

Nar Bahadur, Tej Bahadur, Kashmiri Kirana House, Tulanhe Tole, Mahapal, Lalitpore

**DYE MANUFACTURERS AND DEALERS**

A Lalitman, Dye Manufacturing Works, Pyookha Tole, Kathmandu

Lots of useful formulae for home application are included in  
**DOMESTIC RECIPES** As 5 Industry Book Dept, Shambazar, Cal

**DYE IMPORTERS & DEALERS**

Bi Bahadur Ganga Bahadur,  
Bhimseethan, Kathmandu  
Gopaldas Keshab Lal, 132, Dathu  
Tajhyal Tole, Mangal Bazar,  
Lalitpore  
Gunaraj Ashwinikumar, Tripu-  
reshwar, Kathmandu  
Harshanath & Bros, India Chowk  
& Tripureshwar, Kathmandu  
Kalidhwoj & Bros, Jaisidewal,  
Tole, Kathmandu  
Motiman Ganeshman Ranjtkar,  
Chicannugul Tole, Kathmandu  
Ratnalal Ratnabhadur Shresh-  
tha, Maha Buddha, Kathmandu

**DYERS & PRINTERS****Kathmandu**

Buddhilal Ranjtkar, Manjesh  
kari, Kathmandu  
Chutra Prakash, Chutra Dyeing &  
Printing Works, Thapathali,  
Kathmandu

**Lalitpore**

Bhagwan Das, Nyout Tole, Lalit-  
pore  
Bhajuman Ranjtkar, Ga Bahal  
Tole, Lalitpore  
Indraman Ranjtkar, Tangal Tole,  
Lalitpore  
Jit Bahadur Ranjtkar, Nyouta  
Tole, Lalitpore

**ELECTRIC GOODS IMPORTERS  
& DEALERS**

Bhagwanbibi Singh, Dayabir  
Singh, Kel Tole, Kathmandu  
Krishna Bahadur & Narain Baha-  
dur, Chanki Tole, Lalitpore Br  
Bhotahity, Kathmandu  
Motiman Ratnaman Tuladhar,  
New House, 13, Juddha Sadak,  
Kathmandu  
Nhuichenanar Manandhar, Nepal  
Electric Stores, 13, Juddha Sa-  
dak, Kathmandu

**ELECTRIC GOODS MANUFAC-  
TURERS & DEALERS**

G Ratna & Bros, "Musical  
House," Langan Tole, Kath-  
mandu

**ELECTROPLATING WORKS**

Dharma Ratna Sakyabikshu,  
Jhochhen Tole, Kathmandu

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rate Re 1 per inch

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Illustrated Weekly Hindi

Sahitya Sandesh, 53A, Civil Lines,  
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Rs 15, per Col Rs 8 Coils  
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Agra Nationalist Hindi Subs  
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Col 18"×2½" 6 to a page, Advt  
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Sainik Weekly, Kaserat Bazar,  
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52, Col Rs 13, inch Re 1

Shan, Qasimul Adab, Agra  
Literary, Urdu Subs Rs 2/4/-,  
Advt rate per page Rs 10/-,  
per Col Rs 6, Col 7"×9", 2 to  
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## AHMEDABAD.

Alam, Ghasnam's St, Sarangpur,  
Ahmedabad Gujarati Weekly  
Azad Hind Bhandia, Ahmedabad,  
Gujarati Weekly

Bhatt Bhasker, Gujarat Vidya  
pith, Ahmedabad Gujarati  
Monthly

Buddhi Prakash The Gujarat  
Vernacular Society, Ahmeda-  
bad Gujarati Monthly Subs  
Re 1-8

Deen, Panchpatti, Ahmedabad  
Political, Social & Religious  
Gujarati Weekly Subs Rs 4  
Advt rate per page Rs 12, per  
Col Rs 4, Col 12"×2½", 3 to  
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Gujarat Punch, Chai Rasta,  
Gandhi Rd, Ahmedabad No 1  
Moderate, Anglo Gujarati Subs  
Local Rs 3, Mofussil Rs 4  
Advt rate per page Rs 45, per  
Col Rs 15, per inch Re 1-4,  
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Khadayta Jyoti, Gujarat Punch Office, Gandhi Road, Ahmedabad Gujarati Monthly

Kishore, Chai Rasta, Khadia, Ahmedabad Subs Rs 4, Gujarati Monthly Cols 15" X 4" 2 to a page Advt rate per page Rs 10

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Manorama, Raipur, Ahmedabad. Monthly Gujarati, Subs Rs 4

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**Navsaurashtra**, P O Box 121, Mirzapur Road, Ahmedabad National Independent, Gujarati Weekly, Every Monday Subs Rs 68, Advt rate per page Re 1/-; Readers —Upper middle class, Circulated in Gujarat, Kathiawar and the whole of the Bombay Presidency Col 2" X 15", 5 to a page

New Outlook, Ellis Bridge, Ahmedabad English Monthly, Ann Subs Rs 2-5

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Priya Bandhu, Revdi Bazar, Ahmedabad Nationalist, Weekly, Gujarati Subs Rs 6-4 Advt rate per page Rs 67-8 per Col Rs 16-14 Cir in W India Col 16-14" X 2½", 4 to a page Sunday

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Matni Bhum, Akola, Berai, Marathi Bi-weekly,

Nava Rajasthan, Akola Gujarati Weekly

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Suhail, Rashid Ahmed Siddiki, Anjuman-e-Udu-e-Mohalla, Aligarh Urdu Quarterly Subs Rs 6

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- Allahabad Farmer, Agricultural Institute, Allahabad English, Bi-monthly. Subs Rs 3, Advt. rate Rs 35 per page
- Allahabad Law Journal, 5, Prajag Street, Allahabad English weekly Subs Rs 10, Advt. rate Rs 7, Col 4½" × 8" Published every Friday
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Galpa Lahari, 8, Radha Madhab Gosain Lane, Calcutta Bengali Story journal, Monthly,

Gaudiya and Sri Gaudiya, 16A, Kalpiosad Chakraverty St, Calcutta Vaisnava Religion, Bengali Subs Rs 3 & Re 1-8, respectively Advt rate per page Rs 250, per Col Rs 140, per inch Rs 25, Col 18 ems Weekly & Fortnightly, respectively, Saturday

Grihastha-Mangal, 25, Mirzapur Street, Calcutta Bengali monthly dealing with Health, Hygiene, Domestic Welfare, etc Subs Rs 2-8

Hahnemann, 165, Bowbazar St, Calcutta. Homeopathic Bengali, Subs Rs 3, Advt rate per page Rs 8, Cn in Bengal, Bihar & Assam Col 7" X 4", 1 to page, Monthly

Hahnemannian Bazaar, 162, Bowbazar Street, Calcutta Homeopathic Bengali Monthly Yearly Subs Rs 28, Advt per page Rs 20, per Col Rs 10

Hahnemannian Gleanings, 165, Bow Bazar St, Calcutta Homeopathic, Monthly, English, Subs Rs 3 Advt rate per page Rs 8 Cn in India, Burma & Ceylon, Col 6 1/2" X 4", 1 to page

Harmonist, Sree Gaudiya Math, Bagh Bazar, Calcutta Fortnightly, English

Health & Happiness, 45, Ahmerst St, Cal Monthly, English

Hindu Mission, 32B, Harish Chatterjee St, Cal Monthly Bengali Subs Rs 2 Advt rate per page Rs 25, per col Rs 13, Col 8" X 3", 2 to a page

Hindustan Standard 3C, Burman Street, Calcutta English Daily, Subs Indian Rs 27, Foreign Rs 46, Casual Advt rate per page Rs 350, per half page Rs 180, per Column inch Rs 2-12, Circulation throughout India Column 2 1/2" X 2 1/2", 7 to a page. Mats accepted. Screen 65

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- Homoeopathic Bulletin, 3-2, College Street, Calcutta
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- Homoeopathic Progress, 55, Peary Mohan Sui Garden Lane, Belhaghata, Calcutta Bi-monthly, Bengali and English
- Illustrated News, 7 Mulidhar Sen Lane, Calcutta English Fortnightly
- India Monthly Magazine, 20, British Indian Street, Calcutta English Monthly
- India & The World, India Bureau, 283, Park Circus, Cal
- India To-Morrow, 43D, Suburban School Road, Bhowanipuri, Calcutta Fortnightly, English Subs Rs 5
- Indian Aviation, 13, Ezra Mansions, Cal Eng Monthly. Subs Rs 5
- Indian Dental Journal, 12-1, Esplanade, Calcutta English Quarterly
- Indian & Eastern Engineers, 5, Mission Row, Calcutta English
- Indian Engineering, 300, Bowbazar Street, Calcutta Monthly, English Subs Rs 10, Col 3½" X 11½", 2 to a page Advt rate per page Rs 100, per half page Rs 60, per quarter page Rs 35
- Indian Finance, 116, Lower Circular Rd, Cal Economic & Financial, Weekly, English, Subs Rs 24, Col 11½" X 3½", 2 to page
- Indian Historical Quarterly, 9, Panchanan Ghosh Lane, Calcutta English, Quarterly Subs Rs 8-12
- Indian Homoeopathic Journal 129-1, Bowbazar St, Calcutta
- Indian Homoeopathic Review, 203-1, Cornwallis St, Cal
- Indian Medical Gazette, School of Tropical Medicine Chittaranjan Avenue Calcutta Monthly, Subs Rs 16
- Indian Medical Record, 14, Puri Chand Nahar Avenue, Calcutta Monthly, Medical, English, Subs Rs 7-8, Advt Rate per page Rs 45 Page ½ Demr, 2 columns to a page
- Indian National Airways Gazette, Dum Dum, Calcutta English Monthly
- Indian Print & Paper, 1, Gibson Lane, Calcutta Quarterly English Subs Rs 3-8 Advt Rate Rs 110 per page of 9½" X 3½" in 2 columns
- Indian Railway Gazette, 13, Ezra Mansions, Calcutta English Monthly Subs Rs 10
- Indian Soap Journal, 10, Clive Row, Calcutta Monthly, English, Subs Rs 6 Advt Rate Rs 30 per page
- Indian Stamp Magazine, Windsor House, Mission Row Extension, Calcutta
- Industry**, 22, R G Kar Road, Shambazar, Calcutta Industrial Monthly, English Subs India, Burma and Ceylon Rs 4, Foreign 9 sh Advt rate per page Rs 60, Col 8" X 2½", 2 to page
- Insurance Herald, P2, Mission Row Extension, 4th Floor, Calcutta Weekly, English, Subs Rs 6 Advt rate per page Rs 90, per inch Rs 2-8 Col 15" X 3", 3 to a page Cu in India & abroad Every Saturday
- Insurance World, Aivasthan Bldg, 15, Chittaranjan Avenue, Calcutta Nationalist Insurance Monthly, English Subs Rs 5 Advt rate per page Rs 40 D/C size
- Jagriti, 42, Strand Rd, Calcutta Illustrated Hindi Weekly, Subs Rs 3-8
- Jayasree, 22-C, Aswini Dutt Rd, Kalighat P O, Calcutta Bengali Monthly
- Jeebon Beema 5, Clive Ghat St Calcutta Insurance Magazine, Monthly, Bengali Subs Rs 2 Advt rate per page Rs 20, per Col Rs 10

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- Journal of Ayurveda, 14, Taltola Avenue, Calcutta Monthly, English & Sanskrit Subs Rs 10 and Rs 5 for juniors
- Journal of the Bengal National Chamber of Commerce, P2, Mission Row Extension, Fourth Floor, Cal Quarterly, English
- Journal of the Inst of Engineers (Ind), 8, Gokhale Road, Calcutta Technical English Quarterly Advt rate Rs 30 per page Cu India and abroad Col 8" X 5"
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- Krish, 2, Sashi Bhushan Dey Street, Bow Bazar, Calcutta Agricultural Monthly, Bengali Subs Re 1-8 Advt rate per page Rs 9, per Col Rs 5 per inch As 12 Cols 7½" X 2½", 2 to a page
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- Lokamanya, 160, Harrison Road, Calcutta Daily, Hindi
- Martin Burn House Magazine, 12, Mission Row, Cal Eng
- Mas Pavala, 114-1-A, Amherst Street, Calcutta
- Matibhumi, 74 Dharamtala St Calcutta, Nationalist, Political Daily Bengalee
- Medicine, 44, Badai Bagan Street, Cal Monthly, Pharmaceutical
- Modern Review, 120-2, Upper Circular Road, Calcutta Monthly, English Subs Rs 88
- Mohammadi, 86 A, Lower Circular Road, Calcutta Illustrated Weekly & Monthly, Bengali
- Moslem, 47, Ripon St, Calcutta Weekly, Bengali
- Mouchak, 14, College Square, Cal Children's Monthly, Bengali
- Mussalman, 24, Theatre Road, Calcutta Weekly, English Cols 12" X 4", 2 to page Advt rate Re 1-8 per col inch
- Navasakti, 11-5, North Range, Park Circus, Calcutta Weekly, Bengali Subs Rs 4, Advt rate Rs 20 per page Col 9" X 3", 2 to a page
- Navajug, 123, Lower Circular Road, Calcutta Bengali Daily Subs Rs 21 in town & Rs 25 in mofussil Advt rate per inch Rs 2
- Nava Bangla, 249, Bow Bazar St, Calcutta National Weekly (Friday) Subs Rs 2-8 Advt rate per Col inch Rs 2 Half Crown Book size
- New India Film Gazette 31-3, Chandi Ghose Road, Calcutta
- Orient Illustrated Weekly, 93A, Dharamtala Street Calcutta, Nationalist, English Weekly, Subs Rs 9-12 Col 2½" X 12½", 4 to a page Advt rate for single Column inch Rs 3-8
- Photo Play, 12 Ram Chandra Mallick Lane, Calcutta Weekly English
- Planters Journal and Agriculturist, 13 Ezra Mansions, Calcutta English Fort-nightly Published on 1st and 15th Subs Rs 10
- Prabhat, 61 Bowbazar Street, Calcutta Monthly, Bengali
- Prabashi 120 2, Upper Circular Rd Calcutta Monthly Bengali, Subs Rs 6-8
- Prabuddha Bharat 4 Wellington Lane Calcutta English organ of the Ram Krishna Order Subs Rs 4 Advt rate per page

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- Rs 25, per Col Rs 13 Col 8" X 21", 2 to a page
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- Pradip, 7, Shyama Charan De St, Calcutta Bengali, Monthly Subs Rs 3.
- Pratapati, 209, Cornwallis Street, Calcutta Monthly, Bengali
- Prakriti, 50, Kailash Bose St, Calcutta Bi-monthly, Bengali
- Property, Tower House, Calcutta English, Monthly
- Pushpapatra, 44, Badui Bagan Street, Calcutta Monthly, Bengali, Subs Rs 3-8.
- Quarterly Journal of the Geological, Mining and Metallurgical Society of India Geology Dept., Presidency College, Calcutta Scientific, English, Subs Rs 16, Size D C 8 vo, Quarterly
- Radio-in-India, 13, Ezra Mansions, Calcutta
- Ramdhanu, 16, Townshend Road, Bhowanipore, Calcutta Bengali Monthly
- Rozana Hind, 17, Sagai Dutt Lane, Cal Daily
- Sachitra Bharat, 20, British Indian Street, Calcutta Illustrated Bengali and Hindi, Weekly
- Sahitya Parisad Patrika, 243-1, Upper Circular Rd, Cal Quarterly, Bengali
- Sandesh, (Children's Paper), 117-1, Bow Bazar St, Calcutta Monthly, Bengali, Subs. Rs 2-10
- Sangit Bijan Prabesika, 8C, Lal Bazar St, Calcutta Monthly, Bengali
- Sanhati, 7, Murali Dhar Sen Lane Calcutta Bengali Monthly Subs Rs 2
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- Saogat, 11, Wellesley St., Calcutta Illustrated Bengali Monthly Subs Rs 3-8, Advt rate per page Rs 24 Cn in Bengal, Bihar, Assam & Burma
- Science and Culture, 92, Upper Circular Road, Calcutta Eng Monthly, Published on 7th of every month Cols 34" X 84", 2 to a page Advt rate per page Rs 30, per column Rs 15
- Servant of Homoeopathy, 5, Baniapara, Bannagore, Cal.
- Sishu Saogat, 1, Wellesley St, Calcutta Bengali monthly for Children Subs Rs 2-4, Advt rate per page Rs 15
- Sisir, 21-1, Cornwallis St, Calcutta Weekly, Bengali
- Sonar Bangla, 1-2A, Prem Chand Boral St, Bengali Monthly
- Sree, 118A, Lower Circular Road, Calcutta Bengali Monthly
- Star of India, 26, Chowringhee, Calcutta Muslim Interests, English Subs Rs 18, Cn in Bengal, Assam, Bihar, Orissa & Punjab Col 18" X 24", 6 to the page Daily, except Sunday Advt rate Rs 3 per single Col inch
- Statesman, Chowringhee Square, Calcutta Daily, English Subs Rs 26
- Suchakitsa, 197, Cornwallis Street, Calcutta Monthly, Bengali
- Swadesh, 36, Sukea St, Calcutta Weekly
- Swasthya (Health), 101, Cornwallis Street Calcutta Monthly, Bengali, Subs Rs 2
- Swasthya Samachara, 45, Amherst Street, Calcutta Monthly Bengali Subs Rs 2 Advt rate Rs 12 per page Col 61" X 21", 2 to a page
- Swatantra Bharat 102 Muktaaram Babu St, Cal Hindi Weekly
- Teacher's Journal & Sikha-o Sahitya (in Bengali), 39, Sankar Ghosh Lane, Calcutta Monthly, English & Bengali Subs Rs 7 Advt rate per page Rs 11

**The Sphere of Tea: An exposition of the Cultivation, Manufacture and Trade of Tea in India. Rs. 3. Industry Book Dept., Shambazar, Calcutta.**

Telegraph, 116, Lower Circular Road, Calcutta, Daily, English  
Telegraph Review, 17, Mangoe Lane, Calcutta Eng Monthly Subs Rs 3 Advt rate per page Rs 20 Cols 8" X 12", 2 to a page

Tisco Review, 102, Clive Street, Calcutta Industrial monthly English and Hindi Subs Rs 8 Advt rate per page Rs 80, per Col Rs 45 Page 8½" X 3", in 2 Columns

Udbodhan, 1, Udbodhan Lane, Bagbazar, Calcutta Monthly, Bengali, Religious Subs Rs 29

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Ved Prakash, Hotel Zenith, 78, Harrison Road, Calcutta

Vikal Bharat 120-2, Upper Circular Rd, Cal Monthly, Hindi

Vishwanatha, 14-1A, Sambhu Chatterjee Street Calcutta Daily Hindi Subs Rs 18 Col 20" X 24" 7 to a page

Viswa Bani, Monthly religious Magazine, 19B, Raja Rajkrishna Street, Calcutta

Whip 20, British Indian St, Calcutta Weekly, English

Work & Wealth, 22, R G Kar Road Calcutta Industrial & Commercial Monthly Subs Rs 2

Youth 10 Government Place East, Calcutta

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Mathubhumi Illustrated Weekly, Mathubhumi Bldgs, Robinson Rd, Calcut Malayalam, Subs Rs 6 Cols 13" X 2½" 3 to a

page Casual Advt at Re 1 per inch single column

Monorama, Calcut, Bi-weekly Sanjayan, Gandhi Road, Calcut, Malayalam Monthly  
West Coast Spectator, Calcut, English Bi-weekly

### CAWNPORE

Azad, New Chowk, Cawnpore Urdu, Subs Rs 4, Advt rate Rs 24 per page Rs 68 per Col, As 12 per inch Cn in U P, Punjab & Indian States Cols 24" X 13", 4 to a page Every Saturday

Daily Vaitaman, Cawnpore Daily, Hindi

Mustaqil, Cawnpore

Navin Bharat, Tilak Hall, Cawnpore Hindi Weekly

Nigam Kayasth Patrika, 104 117, Old Saramon, Cawnpore

Pratap, Cawnpore Daily and Weekly Nationalist, Hindi Subs Daily Rs 12, Weekly Rs 3-8, Cn in U P, C P, C I & Rajputana Daily Col 20" X 21", 6 to a page Weekly 3 Cols to a page

Rais Weekly, Rais Manzil, Shafia bad, Cawnpore Urdu weekly Subs Rs 3 Advt rate per page Rs 15, As 8 per inch Col 15" X 10", 3 to a page

Sadaqat, Topkhana Bazar, Cawnpore, Nationalist Urdu Subs Rs 4 Advt rate per inch As 12, Cn in U P C P Bihar & North India Col 18" X 24", 5 to a page Weekly, Saturday

Shahnaye Shariyat, Mall Road, Parade, Cawnpore Urdu monthly, Islamic Subs Re 1-4, Advt rate Re 1 per page

Udaya, Cawnpore Hindi Daily and Weekly

Vyapari Patrika Generalgum, Cawnpore, Hindi, Monthly, Commercial, Subs Rs 2 Advt rate per page Rs 10, Cols 7½" X 24" 2 to a page

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Rs 6-8,  $\frac{1}{2}$  page Rs 3-8 Cn in  
Upper India & Indian States  
Page 9" X 5".

### CHANDERNAGORE.

Matribhumi, Chandernagore  
Weekly, Bengali

### CHINGLEPUT.

Balatha Christhaya Varthamant,  
Dasaipuram, Tinnanui R S,  
Chingleput, Madras. Monthly,  
Tamil, Sub Re 1

Siddha Medical Research Dasar  
puram, Tinnanui, R S Chingle-  
put, Madras Anglo-Tamil  
Monthly, Subs As 8

Student, Chingleput, Madras  
Education Literary, Monthly  
Eng. Subs Rs 2, Adv rate per  
page Rs 5 Cir in Madras  
Presidency & S India Col 48  
Ems X 16 Ems, 2 to a page

### CHITTAGONG.

Jyoti, Chittagong Weekly, Ben-  
gali

Punchajanya, Chittagong Daily,  
Bengali

### COCANADA.

Sadhana, Santikutu, Cocanada  
English Monthly

### COCHIN.

Cochin Angus, Cochin

"Deepam," Deepam Rd, Erna-  
kulam, (Cochin). Malayalam  
Daily. Subs Rs 12, Cir. in Co-  
chin, Malabar & Travancore  
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per inch Re. 1-0; Circulated  
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area, Col 2 $\frac{3}{4}$ " X 15"; 4 to a  
page.

Lokaprakasam, Lokapiakasam  
House, Trichur, Cochin Week-  
ly

Madras States & Mysore Direc-  
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Bengali

Sadhana, Comilla Monthly, Bengali

Sebak, Comilla Independent Bengali Weekly Subs Rs 2-8  
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Advt rate per inch As 8 Pub  
Monday

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Comilla Bengali, Subs Rs 3  
Advt rate per page Rs 28, per  
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Conjeeveram Monthly, Tamil  
Kumara Vikadam 60B, Nellukara  
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Orissa Times, Cuttack Nationalist  
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Cuttack Propagation of Gau  
diya Baishnavism, Oriya, Subs  
Re 1-8

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Subs Rs 4, Oriya Monthly

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Road, Dacca Monthly, Bengali

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Swayatya Sasan, 73, Municipal Street, Dacca Deals with V S G Act and uplift of villages Bengali Weekly. Subs Rs 3 Advt rate per Col. Rs 18. Col 16"  $\times$  24", 4 to a page

Yoga, Yoga Alkapuri, Farasganj, Dacca Bengali Weekly

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Balak, Balak Karyalaya, Pustak Bhandai, Laheriasarai, Darbhanga Education Hindi Monthly, Subs Rs 3

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Darjeeling Times & Planters' Gazette, Villa Everest, Darjeeling English Weekly Subs Rs 7 Cols  $3\frac{3}{4}$ "  $\times$  11", 2 to a page Published every Saturday

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Al-Khalil, Juma Masjid, Delhi Tri-Weekly, Urdu Subs Rs 8 Ansari, Billimarian, Delhi Urdu Weekly

Ajunt, Delhi Daily, Hindi "Bharat," Delhi (Gills' Magazine)

Children's News, New Connaught Circus, New Delhi Nationalist Monthly, English Subs Rs 2-8 Advt rate per page Rs 20, per col Rs 12, per inch Rs 2 Col 10"  $\times$  3" 2 to a page

Commerce & Industry, Prabhu Dayal Building, Connaught Circus, P O Box 72, New Delhi. Independent Nationalist English Weekly Subs Rs 18, Advt per page Rs 75, per Col Rs 20, per inch Rs 2-8 Col 12"  $\times$  24", 4 to a page Pub every Wednesday

Daily Swarajya, Chawli Bazar, Delhi. Nationalist Independent, Urdu Subs Rs 25 Advt rate per page Rs 132, per Col Rs 19, per inch Re 1 Cu in Delhi, Punjab, U. P., Rajputana, C I, Hyderabad, NWF Bengal, Bombay, etc Col 16"  $\times$  24", 4 to a page Daily and Illustrated Weekly

Daily Tej & Tej Illustrated Weekly, Delhi Nationalist, Urdu Subs Rs 18 for daily and Rs 6 for weekly Cu in Northern India

Delhi Weekly, Federal Trade Press, Bunn Bastion Road, Delhi English Weekly Dhara, Ranghahal, Delhi, Monthly

Din Dunya, Juma Masjid, Delhi, Urdu Weekly

Fauji Akhbar, Old Secretariat, Delhi English, Urdu, Hindi, Gujurukhi & Roman Urdu Weekly Subs English Rs 6-8, U H G Rs 3-4, each edition Roman-Urdu Rs 5, Read by Military and Agriculturists Circulated throughout India especially Punjab & U P Col 11"  $\times$  24", 3 to a page Published every Saturday

General News, Ballimarian, Delhi. Political, Urdu Subs Rs 10, for Students Rs 2 Advt rate per page Rs 15 Col 10 $\frac{1}{2}$ "  $\times$  24", 3 to a page Daily

Hindu, Reading Road, Delhi, Hindi Weekly

Hindu Outlook, Reading Road, New Delhi. English Weekly Subs, Inland Rs 6 Advt rate per page Rs 75, per col Rs 15, per inch Re 1, Col 12"  $\times$  2", 6 to a page Published on Tuesdays

Hindustan, Connaught Circus, Delhi Nationalist Hindi Daily Subs Rs 13, Col 18"  $\times$  24", 6 to a page Advt rate As 12 per col inch.

Hindustan Times, Connaught Circus, New Delhi Daily, Nationalist, English. Subs Rs 28 Cols 20"  $\times$  8 $\frac{1}{2}$ ", 7 to a page

- Honbar, Karol Bagh, New Delhi  
Urdu Monthly, School Students' magazine Subs Rs 2, Cols 7"×2½", 2 to a page
- Illustrated Hindu Weekly, Reading Road, New Delhi Hindi Subs Inland Rs 4, Foreign Rs 7 Advt rate per page Rs 24, per Col Rs 7-8, per inch As 10 Col 12"×2", 4 to a page Pub on Tuesdays
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- Indian Information Issued Fortnightly by the Principal Information Offices, Government of India, Delhi
- Indian Journal of Agricultural Science, Manager of Publications, Civil Lines, Delhi Eng. Bi-monthly Subs Rs 15 Advt rate per page Rs 50 Page 8"×5", Issued in Feb, April, June, Aug, Oct & Dec
- Indian Journal of Veterinary Science and Animal Husbandry Manager of Publications Civil Lines, Delhi Quarterly, Subs Rs 6 Page 8"×5" Advt rate per page Rs 50 Published in March, June, Sept, & December
- Indian Listener, New Delhi Official Organ of All India Radio English Subs Rs 6 Advt rate per page Rs 200, per col Rs 8 Cir in India, & Ceylon Size 11"×9", Col 4 to a page, Fortnightly, Published on 7th & 22nd of every month
- Indian Music 18, Fire Brigade Lane, New Delhi English, Hindi, Urdu & Bengali, Subs Rs 2-8 Advt rate page Rs 30 Monthly
- Indian Stamps Magazine Dariba Kalan, Delhi Monthly Subs Re 1
- Indian Trade Journal Published by Manager of Publications, Civil Lines, Delhi English, Trade and Commerce with Crop Forecasts, Weekly Subs Rs 18 (including postage) Foreign Rs 22
- Industrial India, Chandni Chowk, Delhi English Monthly
- Insurance Gazette, Kausar Road, Qutab Rd, Delhi
- Ismat, Kucha Chelan, Delhi Ladies' Monthly, Urdu Subs Rs 4
- Jagrat, 8, Mangal Buildings, Chandni Chowk, Delhi Hindustani Weekly
- Jamia, Maktaba Jamia, Delhi Urdu Monthly
- "Jouhara-Niswan," Delhi (Handicraft Ladies Magazine)
- Journal of the Indian Red Cross Society, 20, Talkatora Rd, New Delhi English quarterly on Health Subs Rs 3, Advt rate Rs 150 per page per annum
- National Call, P O B 46, Delhi Progressive Nationalist, English Subs Local Rs 36, Mofussil Rs 41-8 Advt rate Re 1-4 per inch Cir in Delhi, U.P., C.P., Rajputana & Punjab, Cols 20-5/7"×2½", 7 to a page Daily and Weekly on Sunday
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Sketch, Town Hall, Dhanbad A Coalfield Gazette

#### DHARWAR.

Basavaraj, Haven, Dt Dharwar Kanarese Weekly

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Anubhut Yogmala Office, Baralokpur, Etawah Ayurvedic, Monthly, Hindi, Subs Rs 4, Advt rate per page Rs 10, per Col Rs 6, per inch As 10

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Assamiya, Gauhati Daily, Assamese

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Al Mualim, Belgram House, Sancha Tope, Hyderabad, Deccan Subs Rs 3-8 Urdu Monthly.

Deccan Chronicle, Kingsway, Secunderabad, Deccan English Weekly (Sunday) Subs Rs 4-4 Advt rate per inch As 12, Col 14" X 2 1/2", 4 to a page.

Golkonda Patrika, Hyderabad, Deccan Telugu, Bi-Weekly

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New Era, Nizamshahi Rd, Hyderabad, Deccan English Weekly Nizam Gazette, Hyderabad, Deccan Urdu Weekly

Nizam Vijaya, Gowliguda, Hyderabad, Deccan Urdu Weekly

Payam Daily, Himayat Nagar, Hyderabad, Deccan Urdu Daily Subs Rs 15 Advt rate per inch As 12 Col 19" X 2½", 5 to a page Daily except Friday.

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Daily Haqiqat, 68, Jagat Narain Road, Lucknow Nationalist, Urdu Subs Rs 18 Cols 18" X 2 1/2", 4 to a page Advt rate per page Rs 54, per col Rs 13 per inch As 12 Daily

Hindustani, Lucknow Bi-Weekly, Urdu

Indian Wild Life, Butler Palace, Lucknow Subs Rs 4

Madhuri Newul Kishore Press Lucknow Literary Hindi Monthly Subs Rs 7-8 Advt rate per page Rs 20, per Col Rs 11

Col 9 X 3 inches 2 to a page

Medical Talk for the Home 57 Gwyne Rd, Lucknow Monthly, English Subs Rs 3 Advt rate per page Rs 25 Col 8 1/2" X

22 & 14 cms 2 & 3 to a page

Muslim Review 16, Canning St, Lucknow Religious English Quarterly, Subs Rs 5

National Herald Lucknow

Nigar, 1, G C Bose Road, Lucknow Urdu Monthly Subs Rs 5 Advt rate per page Rs 30, per col Rs 15 Published 7th day of each month

Observer Lucknow Weekly Subs Rs 4

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Oudh Akbar, Huzratganj, Lucknow, Daily, Urdu. Subs. Rs. 18.  
 Phonographic Messenger, Nazirabad, Lucknow Monthly, Eng.  
 Pioneer, Lucknow  
 Sarfaraz, Victoria St., Lucknow.  
 Sudha, 36, Latouche Rd., Lucknow. Hindi Monthly, Social, Political & Literary. Subs Rs. 6. Advt. rates Rs. 25 per page, Rs 15 per col. As 6 per inch. Col. 50" / 2", 2 to a page.  
 Weekly Sadagat, 68, Jagat Nairain Road, Lucknow. Nationalist, Cidu Subs Rs 4 Cols. 12" X 3", 3 to a page.

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Indian Hosiery Journal, Ludhiana Urdu & Eng. Monthly. Subs. Rs. 3. Advt. rate per page Rs. 15, per col Rs 8. Cols 10" X 4", 2 to a page.

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Punjab Fruit Journal, Published by Punjab Provincial Co-operative Fruit Development Board Ltd, Lyallpur. Quarterly Bi-lingual. Size 20" X 30" / 8. Advt. rate per page Rs. 15.

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 Ananda Vikatam, 140, Broadway, Madras Tamil Weekly. Subs. Rs 6 Advt rate per page Rs 50 2 cols. to a page.  
 Andhra Patrika, 7, Thambu Chetty Street, Madras. Telugu Daily. Subs. Rs 24 Mofussil, Rs 20 City. Col. 20" X 2 1/2", 7 to a page  
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 Anglo Indian, White Memorial Hall, Egmore, Madras English Monthly  
 Antiseptic, 323, Thambu Chetty Street, G. T. Madras English Monthly, Medical. Subs. Rs. 5. Advt. rate per page Rs 60 Page 7 1/2" X 4 1/2".  
 Balavindini, 490, Trivethyur High Road, Madras. Monthly. Tamil. Subs Re 1-8

Bharat Devi, 31, Broadway, Madras, Tamil Weekly (Sunday) Cultural Magazine. Subs. Rs. 6 Col. 8 1/2" X 2 1/2", 2 to a page Advt. rate Rs 40 per page  
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 Bhairata Mani, 12, Brindaban St, Mylapore, Madras Tamil Monthly. Subs Rs. 3 Advt rate per page Rs 25 Col 8" X 2 1/2". 2 to a page.  
 Bharati, 7, Thambu Chetty St, Madras Telugu Monthly  
 Daily Musalman, 22, High Road, Triplicane, Madras Urdu Daily & Weekly  
 Dar-ul-Islam, 21, Anderson Street, G. T., Madras.  
 Deccan Mail, 15, General Patters Road, Madras  
 Deccan Times, 137, Broadway, Madras. Muslim Nationalist Subs. Rs. 3-12. Advt. rate per page Rs 50 Cols 18" X 2 1/2". 5 to a page. Weekly  
 Dhanka, 6, Sankaram Chetty St, G. T., Madras, Telugu Monthly  
 Eastern Philatelic Journal, Post Box No. 10, Madras  
 Educational Review, 2-16, Mount Road, Madras. Educational & Literary. English Monthly Subs. Rs. 5 Advt rate per page Rs. 180, per Col. Rs 100 Col 7" X 3". 2 to a page.  
 Federated India, 490, Thuvottu High Road, Madras Independent, English Monthly, Subs Rs 5 Advt rate Rs 20, per page, Rs. 11 per half page & Rs 6 per quarter page Published 15th of every month  
 Field, 190, Mount Road, Madras. Sports & Athletic, English Monthly. Subs Rs 5 Advt rate per page Rs. 360 Col. 9" X 3 1/2".  
 Film Bulletin, Triplicane, Madras English Monthly.  
 Gihalakshmi, 15, Westcott Road, Royapettah, Madras Telugu Monthly.  
 Groundnut Market Reporter. Karban Mansions, 308 Lingi Chetty St., G. T., Madras

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Hindi Prachar Samachar, D B Hindi Prachar Sabha Thyagarayanagar P O, Madras Hindi, Rs 2, only Monthly

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Indian Veterinary Journal 26, Wallajah Road, Mount Road, Madras English Bi-Monthly

Jana Shakti, 270, Triplicane High Road, Madras Tamil Weekly

Journal of Indian History, "Shirpadam," 143, Bordies Rd, Mylapore, Madras Eng Quarterly Subs Rs 10

Junglewallah, Wee Nestle, Mambalam, Madras Monthly, Eng

Karuneeaga Mitran, 31, Venkies Street, Madras Monthly Subs Re 1

Kine Sports Luz Mylapore, Madras English Monthly

Madras Law Journal & Yearly Digest Office, 42, Mundakanniammen Kovil St, Mylapore, Madras

Madras Medical Journal, Luz Church Rd, Mylapore, Madras English Quarterly

Mail, Mount Road, Madras Daily, Independent, English Subs Rs. 24-8 Advt rate per inch Rs 5, Cir throughout S India Col  $22"$   $\times$   $2\frac{1}{2}"$ , 7 to a page

Manoranjan, 286, Appala Bldgs, Esplanade, Madras Tamil Monthly

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New Age, 270, Triplicane High Rd, Madras English Monthly

New Leader, 2, Airmen Street, Madras Religious Political and general, English Weekly Subs Rs 4 Advt Rate per page Rs. 80 per Col Rs 36, per Inch Rs 2 Cir in India, Ceylon, America, England Published on Sundays

Planters Chronicle, Post Box No 155, Madras English Fortnightly

Prajabandhu, 39, Anderson St, Madras Telugu Weekly

Silver Screen, 1-17, Mount Road, Madras Tamil Weekly

Sunday Herald, 31, Lane Viena St, West Mambalam, Thyagarayanagar Post, Madras Eng Weekly

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Indian Commerce, Madura Monthly English

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Gouri Doot, Maldah Weekly, Bengali

Malda-Akbari, Malda Bengali Tarun Maldaha Malda Weekly, Bengali

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Rashtra Bandhu, Kadri Sanyasi Gudde Road, Mangalore, S Kanara, Weekly, Nationalist Political Kanarese Subs Rs. 3-5 Advt rate per page Rs 32, per col Rs 8 Col 16" X 2½", 4 to a page Published on Sundays Saraswat, Mangalore Konkani Language Subs Rs 3-4 Col 8" X 2", 3 to a page Weekly pub on Fridays-

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Educational India, Masulipatam (S India) English Monthly Subs Rs 3-8 Advt rate per page Rs 12, per col Rs 7, per inch Rs 2 Col 3" X 3", 2 to a page.

Krishna Patrika, Masulipatam Telugu Weekly

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Mayurbhanj Law Reporter, Mayurbhanj (Quarterly Publication), Published in September, December, March and June Subscription Rs 3 (Manager—N C Sanyal B A, Mayurbhanj Law Reporter)

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Bhugal, Meerut Hindi, Geographical Magazine

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Sankirtan, Sipat Bazar, Meerut Religious, Hindi Monthly Subs Rs. 3-3 Advt rate per page Rs 15 Cols 8" X 3½", 2 to a page Published on 15th of every English Month  
Sunday Times, Budhana Gates, Meerut English Weekly  
Swadharma, Sundaishan Press, Meerut Anglo-Hindi Weekly

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Nihar, Contai, Midnapur Weekly, Bengali Subs Rs 2

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#### MULTAN

Haqiqat, Multan City Urdu Weekly

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Chashi, Mymensingh Bengali Weekly

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Purnima, Kishoreganj, Mymensingh Monthly, Bengali

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 Dipika, Kushtia, Nadia Weekly, Bengali Subs Rs 3 Advt rate per page Rs 5 Col 10" X 2½", 2 to a page  
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 Indian Labour Journal, Nagpur  
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 Lokmat, Subash Chandra Road, Nagpur City Hindi Daily & Weekly. Daily Subs. Rs. 40 Weekly Rs 7 Col Daily 20" X 2½", 7 to a page, for weekly 13" X 2½", 4 to a page Cir in C P, Berai & C I Daily except on Sunday, Weekly on Sunday Advt rate up to 100 inches, Rs 3 per inch and above that As 12 for daily and Re 1 for Weekly.  
 Mahastasia, 75, Pachpawali Rd, Nagpur City, C P Marathi Bi-Weekly  
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thly, Subs Rs 3

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Rashtravari, Navashakti Publishing Co Ltd, Patna

Searchlight, Patna Nationalist. English, Subs. Rs 20, Advt rate per page Rs 250 Cir in Behar, Col 17" X 24", 5 to a page. Daily

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Balodyan, 689, Sadashiv Peth, Poona 2, (Marathi Monthly) Subs Rs. 2

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Mudran Prakash, Aiyabhusan Press, Poona 2 Quarterly devoted to Printing Trade Subs Rs 2

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# GENERAL INDEX

*Figure in the margin indicate page number*

Acacia	382, 419, 452, 463, 469 475, 498, 566, 568	Ambei & granite block	452
Acha Tree	421	Amla	463, 505
Acids & Chemicals	356, 485	Ammunition Factory	396
Acid Proof Jars	413	Ampoules	351
Aconite	365	Amsatta	435
Acquamarine	574	Aniseed	438
Adina	506, 596	Anjan	510
Aerated Water Factory	380, 483 527, 551, 572	Annuity Business	259
Afridiwad Cloth	530	Antimony	544, 549, 584, 596
Agate	382, 558, 578	Apatite	430
Agricultural Belts	579	Apples	476, 493, 582
Agricultural Farms	479	Apricots	530
Agricultural Implements	458, 561 565	Arecanut	349, 393, 397, 411, 413 417, 421, 427, 559, 582 592
Agricultural Institution	599	Arecanut Curing	559
Agricultural Produce Cess Act, 1940	220	Arecapalm	377, 520
Agricultural Resources in India	283	Arhai	360, 428, 432, 434, 443 448, 452, 455, 456, 458 470, 476, 480, 558, 560 563, 573
Agricultural & Sericultur- al Institution	599	Arka	409, 415
Air	389, 400, 592	Arms & Ammunition	396
Air Mail Services	80	Army Clothing Factory	479
General Rules 80		Arrowroot	417, 563
Mail Parcels 80, Ster- ling Money Orders by		Arsenic	467
Air Mail 80 Indian In- ternal Air Services 80		Artistic brass	541
Foreign Services from India 81, India America		Arts & Crafts School of	604
Air Link 81, Air Mail Fees 82, Air Graph Service 82.		Artwares	472, 550
		Asbestos	411, 430, 558
		Asphalt	596
		Assafoetida	527
Ajawan	462	Assam—Climate 519, Soil 519, Natural Resources 519, Forests 520 Fauna 520, Crops 520, Minerals 520 Tea Industry 521, Irrigation 521, Factories 521, Cottage Industries 521 Resources 522, Tim- ber 552, Trade 522 Rail and River Borne Trade 523 Transport and Com- munication 523	
Almond	486	Asans	500
Aloes	588	Atta	359
Alphonso Mangoes	397	Attache Case	380
Alum	476, 495, 544, 547, 561	Attar	456, 459
Alumina	412	Avaiam Bark	407
Aluminium Articles	412		
Aluminium & Enamel- Utensils	358		
Aluminium Factory	380, 484		
Aluminium Industry	405		
Aluminium Wares	369, 380, 485		
Alwans	365		
Ambari	558		

**Thick Type insertions in these pages are Profit Making—Surely.  
INDUSTRY, 22, R. G. Kar Road, Shambazar, Calcutta.**

Avani	---	588	Banks, Recent Business	---	254
Awnings	---	466	Figures	---	551
Axes	366, 523,	564	Barite	---	551
Babul	478, 516, 561,	573	Bailey	349, 356, 381, 428,	432
Baffa Cloth	---	432		434, 437, 438, 440,	443
Bahera	---	463		444, 448, 451, 452,	454
Bajra	381, 390, 392, 393,	395		456, 458, 459, 461,	465
	396, 398, 399, 401,	416		467, 469, 471, 474,	476
	420, 424, 428, 443,	445		479, 480, 481, 489,	493
	448, 451, 456, 459,	461		495, 498, 500, 501,	520
	465, 467, 469, 474,	476		527, 529, 551, 556,	558
	478, 479, 480, 482,	485		561, 566, 571, 585,	594
	487, 489, 493, 495,	497			595
	500, 503, 509, 527,	529	Baroda State Railway	---	87
	537, 541, 551, 556,	558	Barytes	406, 411, 415,	568
	566, 568, 571, 573,	582			570, 596
		585, 587	Basket	370, 396, 467,	493
Bakelite Materials	---	382	Basket Making	374, 379, 380,	407
Bakeries	351, 380, 403,	413		423, 495, 504, 511	
Bakul	---	377		521, 526, 546, 588	
Balam Rice	---	357	Basket Weaving	437, 450, 468,	497
Balaposh	---	373	Battery Cells	---	556
Baling Press	581,	587	Bauxite	430, 443, 504, 513,	550
Ballast	---	590		564, 566, 574, 578,	590
Balloons	---	560	Bauxite Mine	---	309
Bamboo	377, 389, 392, 400,	463	Bazar Weight	---	118
	478, 488, 510, 511,	513	Beads Making	---	358, 452
	519, 522, 549, 551,	559	Beans	---	413, 443, 559
	573, 574, 580, 590,	593	Bed Sheets	359, 445, 465,	501
Bamboo Basket	364, 365,	453			552
		508, 572	Beddings	---	500
Bamboo Handles for Umbrellas	---	363, 364	Beeswax	370, 543, 580,	582
Bamboo Mat Making Industry	---	375, 559	Bee Keeping	---	518, 575
Bamboo and Reeds	---	363	Beedi Making	---	under Birri
Bamboo Walking Sticks	---	512	Behra	---	389
Bamboo Ware	---	363	Bell Chaktis	---	474
Bamboo Work	---	376	Bell Metal	---	422
Bananas	367, 517,	559	Bell Metal Articles	364, 545,	583
Bangles	358, 364,	405	Bell Metal Castings	---	559
Banians	---	389	Bell Metal Factory	---	410
Banjan	---	389	Bell Metal Industry	---	358, 373
Bank Rate	---	245			511, 549
Banking Development in India	---	241	Bell Metal Utensils	---	366, 379
Banks, Cash Ratios of Different classes of Banks	---	251			434, 548
Banks, Classifications of, in India	---	241	Bell Metal Vessels	411, 508,	513
Banks, Capitals Deposits & Reserves	---	244			516, 588
Banks, Co-operative	---	253	Bell Metal Wares	358, 364,	373
Bank Failures	---	251			412, 416, 455
Banks, Land Mortgage	---	253			525, 543, 544
Bank Failures	---	251	Bell Metal Works	426, 516,	546
			Belun	---	379
			Belluti Clay	---	361
			Bengal—Produce	349, Ma-	
			jor Industries	350, Cot-	
			tage Industries	351, Mi-	
			nerals	351, Irrigation	
			351, Budget Estimates		

Thick Type insertions in these pages are Profit Making—Surely.  
INDUSTRY, 22, R. G. Kar Road, Shambazar, Calcutta



# 1286 INDUSTRY YEAR BOOK & DIRECTORY, 1943

for 1942-43 352, Educa- tion in 1940-41 352, Rail- ways 352, Transport 352, Details of Imports & Ex- ports 352, Survey of Fo- reign Trade in 1940-41 354, Coasting Trade 354.		475, 486, 488, 493 498, 504, 509, 530 537, 565, 572, 583 584
Bengal & Assam Rail- way	88	Blanket Sheet 459, 571
Bengal Nagpur Railway	87	Blanket Weaving 396, 398, 407 421, 433, 487 521, 570
Bengal Jute Monopoly	330	Bleaching 528
Bentonite	574	Bleaching Powder 446
Ber 382, 475, 509, 512		Block Printing 574
Berry 448		Boat 363
Beryl 572		Boat Building 351, 364, 405, 446 477, 491, 540
Betel 411, 419, 427, 558		Bobbins 458
Betel Leaf Cultivation 396		Bolts, Nuts, Etc 356
Betel Leaves 360, 362, 364, 369 370, 376, 388, 393 394, 396, 407, 422 511, 517, 523, 543 579, 582		Bombay—Soil and Climate 381, Crops and Produce 381, Cattle 382, Fisher- ies 382, Forests 382, Mi- nerals 382, Handicrafts 382, Major Industries 383, Irrigation 383, Trade 383, Fish Indus- try 383, Scope for New Industries 383, Assem- bly 383, Foreign Trade of the Province of Bom- bay 384, Import Trade 384, Export Trade 385, Subordinate Ports of the Bombay Presidency 386.
Betelnuts 357, 369		Bombay Baroda & Central India Railway 88
Betelnut Palms 382		Bombay City—Foreign Trade 386, Exports 386, Coasting Trade 386
Betel Vines 409, 512, 513, 515		Bone Crushing Mill 573, 581
Bharan Utensils 376		Bone Manure 517
Bhelli Gur 439		Bone Mills 380, 403, 420, 480, 538
Bicycle and Motor Tyres 350		Book Binding 351, 356
Bidi Factory 561		Boot Polish 356, 575
Bidi Industry 513		Boot & Shoe Making 359, 361 440, 488
Bihar—Forests 428, Crops 428, Sone Canal 429, Ir- rigation 429, Cattle 429, Minerals 429, Minerals in Chota Nagpur 430, Handloom Industry 430, Industries 430, Major Industries 431, Factories 430, Industrial Possibili- ties 431, Assembly 431, New Flotations 431, Transport 431		Bowls and Cups 454
Bill Hooks 564		Boxes 376, 496, 500, 524, 541
Birhi 548, 563		Bracelet Manufacturing 567
Biri Manufacture 356, 407		Brahmanical Thread 460
Biscuit Factory 380, 540		Brass and Bell Metal Articles 371, 376, 521
Biscuit Making 356, 373		Brass and Bell Metal Industry 423
Black Berry 468		Brass and Bell Metal Manufacture 351
Black Marble 594		Brass and Bell Metal Wares 358, 361, 376
Black Stone 565		
Black Wood 406, 421, 582, 592		
Blanket 364, 365, 372, 373 374, 375, 376, 382 388, 405, 432, 434 435, 437, 439, 445 450, 451, 454, 460 463, 469, 472, 473		

Solve unemployment Problems? Read CAREERS FOR AGENTS & MIDDLEMEN. Industry Book Dept., Shambazar, Calcutta.

Brass and Bell Metal Works	359, 361, 367, 372, 378	Building Materials	357, 402, 526
Brass and Copper Metal Works	— 382	Building Stones	382, 395, 430 474, 476, 508, 510, 512 516, 558, 571, 576, 590
Brass, Copper & Bell Metal Works	— 374	Bullion Market	— 225
Brass & Copperware	356, 388, 450	Bung Jars	— 559
Brass Foundries	492, 565, 570	Burugulu Manufacture	— 409
Brass Locks	— 380	Business Abbreviations	— 197
Brass Moulding	— 580	Butter Factory	— 452
Brass Ornaments	— 546	Butter Making	372, 441, 452, 511
Brass Plates	— 361	Button Making	351, 358, 364, 433
Brass Pots	— 389, 549	Cabbage	369, 429, 443, 595
Brass Ribbon	— 472	Cabinet Making Factory	— 468
Brass & Silver Stools	— 553	Cabinet Ware	360, 440, 463, 492
Brass & Silver Works	— 396	Calcium compounds	— 572
Brass Utensils Making	366, 380 432, 434, 435, 437, 452, 465 468, 480, 493, 512, 524, 548 556, 562, 564, 572, 584, 585	Calcutta—Industries	356, Trade 356, Imports, Ex- ports 357, Foreign Trade 357
Brass Vessels	396, 411, 416, 420 421, 427, 465, 472, 491, 492 496, 507, 510, 523, 583, 588	Calcutte	— 578
Brass Wares	402, 407 410, 413, 422, 435, 440, 444 452, 460, 472, 474, 480, 491 504, 507, 511, 512, 540, 575	Calico Printing	382, 458, 461 475, 480, 504, 565
Brass & White Metal Nibs—	— 357	Cambu	381, 402, 405, 406, 407 410, 412, 415, 416, 421, 423, 428
Brass Works	396, 402, 406 459, 460, 470, 489, 491 516, 546, 571, 575, 581	Camel Wool Blankets	— 475
Brazier's Works	— 363	Camp Furniture	— 413
Breweries & Distilleries	396, 497 504	Candle Factory	— 380
Breweries Work	— 454, 483	Candle Manufacturing	— 356
Bricks	356 367, 380, 395 430, 521, 559, 588	Cane	— 370, 519
Brick Field	— 369	Cane Boxes	— 373
Brick and Tile Clay	— 430	Cane Weaving	— 468
Bricks and Tiles Fac- tory	403, 413, 585	Cane Work	373, 376, 379
Brick and Tiles Making	405, 427, 504	Canoes	— 522
Budles	— 572	Cap	— 473
Brinjal	— 443, 563	Cap Embroidery	— 364
Brocade	388, 400, 440	Capsicum	— 582
Bronze Vessels	— 420	Carbon Paper	— 383, 569
Bronze Work	— 402	Carbonate of Soda	— 482, 496
Brush	356, 383, 521, 588	Cardamom	392, 393, 413 416, 559, 582, 592
Buckets	452, 492, 556	Cardboard Making	— 350, 380
Buckets & Trunks	— 379	Cardboard Box	— 356
Buckwheat	— 595	Carpentry	351, 359, 363 367, 405, 460, 469, 489 491, 492, 504, 530, 580
Budget of Bengal	— 352	Carpet Factory	— 389
Budget, Central	— 232	Carpet Industry	— 390, 470
Budget, Railway	— 238	Carpet Making	389, 392, 407, 410 432, 434, 435, 439, 441 445, 451, 452, 494, 497 506, 537, 539, 541, 542 551, 555, 575, 583, 585
		Carpet Wearing	365, 382, 405 407, 415, 421, 440, 445 474, 483, 596
		Cart Making	— 477

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# 1288 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Cart Wheel	366, 395, 439	Ceramic Industry	559
Casein	442, 508	Cereals	400, 414, 428, 438, 440
Cash Boxes	383		442, 445, 479, 498, 524
Cash Ratios of Different	460	Chaddais	358, 365, 374, 375
Classes of Banks	251	Chaki Gur	436, 440, 473
Cashewnuts	413, 559, 592, 593	Chalcedony Stone	594
Casket	559	Chalghoza	486
Cast Iron Factory	579	Chambers of Commerce	155
Casting of Metal	356	Chank Fisheries	423
Castor	381, 411	Charcoal	400, 463, 510, 511, 542
	412, 415, 429, 432, 448	Chatais	375
	471, 507, 543, 568, 582	Checks woven	366, 375
Castor Cake	367	Cheena	560
Castor Oil	548, 563	Chemicals	350, 356, 383, 431
Castor Oil Mill	459		446, 483, 553, 556, 568
Castor Seed	390, 399, 401, 405, 415	Chemical Factory	502
	416, 420, 428, 432, 446	Chemical Industry	553
	473, 503, 550, 563, 573	Chemical Manures	407
Castor Seed Output	289	Chemical Works	380, 463
" Export	289		553, 556
Catechu	377, 382, 433, 463	Cheroots	403
	469, 477, 508	Chess	546
Catechu Factory	458	Chests	522
Cattle—Bihar	429, Bombay	Chicken Works	367
382, Punjab	482, United	Chiknis	375
Provinces	449.	Chiks	443
Cattle Fairs	Under Fairs	Chillies	360, 362, 391, 397, 398
Cauldrons	452		399, 413, 415, 428, 432
Cauliflowers	429, 432, 436		438, 440, 454, 476, 523
	440, 582, 595		525, 582
Caustic Soda	446, 450	China Clay	411, 418, 430
Cedrelia	596		443, 553, 578
Ceiling Tiles	588	China Silk Cord	594
Celluloid Comb Industry	370	Chintz	366, 375, 458, 571
Celluloid Goods	350, 356, 370	Chir	476, 509
Cellulose Industry	593	China	366
Cement	412, 424, 430, 431, 446	Ch नेता	365
	483, 485, 538, 539, 541	Chittagong—Foreign Trade	
Cement Factory	425, 431, 443, 446	of Chittagong	362, Im-
	492, 504, 513, 537, 539	ports, Exports	362, Coast-
	550, 553	ing Trade	363
Cement Tile Factory	556	Cholam	402, 405, 406, 408
Cement Work	405, 485, 502		410, 411, 412, 415
Central Provinces, Market			416, 421, 423, 428
Places of	503		558
Central Provinces—Soil		Chrome Ore	421
503, Climate	503, Crops	Chromite	430, 583
503, Minerals	504, Indus-	Chromium	430, 574
tries	504, Factories	Chua	543
Trade	505, Irrigation	Chutney	465
505, Railway and River		Cigar Factory	425
borne Trade	505, Trans-	Cigar Making	378, 403, 416, 425
port and Communication	505	Cigar Manufacture	407, 424
		Cigarette Making	383, 438, 450
Ceramic and Glass Making			478, 560
Materials	430	Cigarette Factory	540

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**BUSINESS EFFICIENCY. Rs. 2. Industry Book Dept., Calcutta.**

Cinchona	365, 398, 401, 403 419	354, Chittagong 363, Madras 404, Orissa 444, Sind 535
Citron	448, 592	
Civil Divisions of India		Coating cloth 475
337, Assam 344, Baroda		Cobalt - 596
347, Bengal 337, Bhutan		Coconut 349, 357, 367, 369, 375
347, Bihar 340, Bombay		381, 389, 393, 397, 401, 409
338, Central Provinces		411, 413, 416, 417, 420, 421
343, Gwahor 347, Hydera-		422, 427, 543, 547, 588, 592
bad 346, Kashmir 347,		593
Madras 339, Mysore 346,		Coconut leaves - 588
Non-British Territories		Coconut Oil 358, 417, 421, 559, 593
348, North West Front-		Coconut palms 382
ier Province 344, Orissa		Coconut Plantations 295, 349, 559
346, Punjab 342, Sikkim		Cocoon 371, 436, 437, 444
347, Sind 344, United		576, 580
Provinces 341		Cocoon Breeding Farm 373
Clay 361, 402, 508, 559, 594		Coffee 294, 401, 410, 413, 416
Clay Cooking Vessels 363		417, 419, 421, 423, 425
Clay Models - 369		550, 559, 582, 584, 592
Clay Modelling - 351		Coffee Curing 405, 413
Clay Pots 360		Coffee Exports 295
Clearing House Returns 251		Coffee Plantation 294
Climate—Assam 519, Bom-		Coffee Production - 294
bay 381, Central Pro-		Coffee Trade - 295
vince 503, Punjab 481		Coir 356, 389, 593
Clips - 383		Coir Making 375, 405, 413, 420
Cloth 361, 383, 439, 490, 537		Coir Mats - 593
558, 560, 579, 585		Coir Matting 593
Cloth Borders 356		Coir Yarn 417, 559
Cloth Dyeing 478, 542		Comb 358, 369, 370, 521
Cloth Printing 465, 478		546
Cloth Weaving 364, 370, 427, 430		Commercial Associations - 155
434, 472, 488, 498		Commercial Institutions - 608
506, 512, 516, 526		Commercial Laws & Notifi-
542		cations - 126
Coach Building Works - 403		Commodities Prices 330
Coal 351, 358, 361, 362, 365, 402		Company Position 312
429, 436, 437, 440, 443, 449		Conchshell Articles - 356
474, 482, 491, 495, 498, 504		Conchshell Bangles - 359
507, 518, 520, 525, 528, 544		Conchshell Bracelets - 351
549, 550, 557, 558, 561, 564		Conchshell Industry - 358
568, 574, 590, 596		Condiments Mills - 588
Coal Bearing Rocks 546		Condiments & Spices 349, 366, 381
Coal Deposit in Assam - 520		401, 408, 409, 414, 416, 420
Coal Field 361, 510, 520, 549, 563		424, 427, 428, 440, 468, 482
Coal Mine 509, 512, 525, 557, 563		493, 503, 509, 511, 514, 547
590		551, 558, 578, 582
Coal Trade -		Confections - 473
Coal Tubs - 361		Confectionery and Codi-
Coal Output 306		ment preserving - 356
Coal, Per Capita Output of		Consumption of Cotton - 270
Coarse Cloth Weaving 469, 487		Cooker - 356
543		Cooking Utensils - 485
Coarse Sataranchus - 365		Cooking Vessels - 457
Coasting Trade—Bengal		Co operative Banks - 252

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# 1290 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Copper (ore and metal)	365, 418 430, 432, 437, 440, 446, 449 454, 467, 476, 482, 493, 504 513, 544, 558, 566, 568, 574 583, 590, 596	518, 532, 540, 541, 557, 561 570, 578, 594
Copper Belts	---	
Copper Output	309	
Copper Utensils	366, 465, 467, 468 480, 556, 562	Cotton Ginning, Pressing and Weaving 420, 423, 494
Copper Vessels	389, 392, 396, 411 416, 421, 465, 572 510, 583	Cotton Goods 356, 390, 395, 423 504
Copperware	363, 402, 422, 472 504, 530, 540	Cotton Goods, Exports of 275
Copper Works	541, 581	Cotton Goods, Imports 276
Copra	417, 593	Cotton Goods, Value of Imported 277
Coriander	582, 595	Cotton Handloom Weav- ing 275, 594
Corn Grinding Mills	539	Cotton Industry 383, 538
Corundum	402, 421, 558, 590 596	Cotton Mill Industry— Growth of the Textile In- dustry 268, Modern De- velopment 269, Consump- tion of Cotton 270, Seat of Cotton Industry 270, Yarn Output 273, Piece- goods Output 273, Ex- port Figures 275, Import Figures 276 Problem of Cloth in India 277
Cost of Living Index Num- bers	336	Cotton Mill Industry, Mo- dern Development of 268
Cot Tapes	538	Cotton Mills 350, 356, 363, 364 367, 369, 374, 380, 383, 385 388, 389, 391, 399, 400, 403 405, 416, 417, 420, 424, 481 463, 483, 495, 501, 505, 514 540, 550, 553, 556, 558, 570 572, 582, 585
Cottage Industries	570, 587	Cotton Mills in India, Dis- tribution of 271
Cottage Industries—Assam 521, Bengal 351, Punjab 482, United Provinces 449		Cotton Mills Industry, Prospect of 278
Cotogem	473	Cotton Mill Industry in Mysore 582
Cotton—		Cotton Output 284
Acreage and Yield	284	Cotton Milling and Press- ing Factory 590
Trade Descriptions	284	Cotton Piecegoods 405
Exports	286	Cotton Presses 403, 406, 411, 415 530, 558, 562, 565 571, 585, 594
Cotton Carpet	351, 391, 392, 395 409, 415, 430, 450 482, 484, 494, 496 505	Cotton Pressing Mill 464, 472, 509 537, 540
Cotton Cloth	358, 367, 370, 388 389, 390, 405, 415, 433, 437 458, 460, 464, 476, 478, 480 493, 498, 507, 508, 516, 528 530, 537, 539, 541, 545, 561 564, 571, 572, 584, 594	Cotton Prints 469, 482, 496, 518
Cotton Cloth Weaving	407, 424 437, 455, 469, 474, 487, 488 511, 514, 524, 548, 555	Cotton, Raw 283, 364, 381 388, 389, 390, 391, 392, 395 398, 399, 401, 405, 406, 408 410, 411, 412, 414, 415, 416 420, 423, 428, 435, 442, 446 448, 451, 452, 456, 459, 465 473, 476, 480, 481, 484, 486 488, 490, 492, 494, 496, 497
Cotton, Consumption of	270	
Cotton Durries	493	
Cotton Dyeing	405, 469	
Cotton Fabrics	408, 471, 490, 494 506, 514, 539, 581	
Cotton Ginning & Press- ing Factory	363, 390, 392, 403 408, 410, 423, 461, 472, 474 478, 483, 490, 495, 497, 500 504, 505, 506, 510, 512, 516	

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499, 501, 503, 505, 509, 512	370, 373, 375, 379, 437, 439
514, 524, 525, 527, 530, 537	472, 483, 521, 546, 568
539, 541, 546, 548, 550, 552	Cycles and Cycle parts — 431
556, 558, 561, 563, 566, 568	Cypress — 419
571, 573, 578, 581, 582, 585	Daggers 470, 568, 594
587, 590, 594	Dairy Farming — 359, 502
Cotton Rope — 504	Dal Factory — 512
Cotton Seeds oil — 538	Damascening of Iron — 488
Cotton Spinning in U P — 450	Daos — 370, 523
Cotton Spinning & Gin- ning 485, 486	Dates 389, 496, 497
Cotton Spinning and Weav- ing 417, 482, 497, 530, 594	Date Palms 349, 382, 514
Cotton Stuff — 494	Date Palm Sugar — 370
Cotton Tape Making — 367	Defence Loans — 226
Cotton Textiles Sizing and Filling Control Order, 1942 — 144	Diamond 402, 558, 568
Cotton Weaving 358, 360, 363, 365 367, 368, 372, 373, 374, 375 376, 378, 393, 396, 402, 408 410, 412, 422, 432, 437, 441 452, 460, 463, 464, 466, 475 478, 491, 492, 494, 497, 500 510, 513, 515, 521, 540, 544 546, 561, 565, 568, 569, 593	Distillery 408, 439, 480
Cotton Yarn 388, 430	Distillation of Wine and Sprit — 394
Cotton Yarn & Piecegoods Output 273, 276	Dividing Plan, Insurance on — 261
Cotton Weaving & Spin- ning Mills 390, 392, 396 497, 594	Dolomite — 564
Cotton & Woollen Socks — 561	Dragging Ropes — 373
Crape de-Cum — 582	Drainage Pipes — 588
Cricketer Bat Manufactur- ing Factory — 576	Dressing Tables — 460
Crops—Assam 520, Bengal 349, Bihar 428, Bombay 381, Central Provinces 503, Indian States 550, Madras 401, Orissa 543, Punjab 481, Sind 531, United Provinces 448	Druggets 505, 583
Crowbars — 564	Drugs 415, 569, 574, 582, 595
Crown Cork — 356	Drug Works — 380
Cumin Seed 462, 582	Dry Cells — 383
Cups — 490	Dry Fish — 379, 389
Curd — 598	Durries 378, 433, 450, 458, 555
Curio — 572	Durri Factory — 494
Curtains 432, 469	Durri Weaving 441, 521
Cushions and Durries — 360	Dye Work — 388
Custard Apple 349, 448	Dyeing 376, 382, 392, 407, 416 420, 437, 450, 466, 504 516, 528, 539, 574, 585
Custom Revenue — 221	Dyeing and Cleaning — 356
Customs Tariff, Indian — 208	Dyeing Factory 402, 517
Cutch 410, 566	Dyeing Industry 389, 422, 512
Cutch Factory — 380	Dyes — 574
Cutlery 351, 357, 358, 361	Dyes and Tannin Mate- rials — 381
	Earthenware 358, 366, 402, 419 528, 530, 581, 584
	Earthen Jars 370, 594
	Earthenware Model — 374
	Earthen Pots 369, 370
	Earthen Vessels — 552
	East Indian Railway — 89
	Ebonite Combs and Pen- stands — 460
	Ebony 382, 402, 460, 513
	Ebony Carving Industry — 460
	Ebony Casket — 460
	Egg — 411
	Egg Plant — 563
	Ekra Grass — 363
	Electric Bulbs 350, 356, 538

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# 1292 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Electrical Engineering Workshops	380, 527	Fan Leaves	541, 588
Electric Factory	584	Farashdanga Dhuti	367
Electric Fans	350, 383, 483	Fauna of Assam	520
Electrical Goods	451, 584	Felspar	403, 436, 572, 580, 590
Electric Measures	122	Felt Making	455, 482, 486, 498
Electric Power House	510, 538	Felt Rugs	498, 572
Electric Shades	454, 548	Felted Mats	530
Electric Tube-wells	460	Ferro-manganese	431, 591
Electroplating	351, 388	Fibre	498, 574, 580
Electroplated Goods	451	Figs	349, 396, 448, 468
Elephant Grass	541	Filatures	372
Elephant Trapping	456	Filgree Gold & Silver Work	351, 543
Embroidery	351, 356, 380, 405, 422, 440, 471, 521, 553, 561, 568, 575, 594, 596	Finance in India	225
Embroidered Silk Sarees	358	Financial Settlement with the U K	233
Enamelling	521	Fire Arms	437
Enamelled and Porcelain Wares	356	Fire Bricks	380, 513
Enamel Works	497, 571	Fireclay	359, 430, 557, 578, 590
Endi Cloth	378	Fire, Marine & Miscellaneous Insurance Business	259
Engineering Measurements	121	Firewood	370, 400, 523
Engineering Schools and Colleges	615	Fireworks	356, 383, 440, 530
Engineering Works	483, 502	Fish	357, 370, 394, 397, 432, 459, 573, 587
Engineering Workshops	369, 521, 527	Fish Canning	417
Envelopes	356	Fish Curing	413, 423, 559
Epsom Salt	553	Fish Industry	522, 571
Essential Drugs (Census) Order Amended	135	Fish Knives	379
Essential Oil	405, 459	Fish Manures	381, 522
Eucalyptus	419, 522	Fish Oil	379, 413, 522
Eugenia	596	Fisheries	398, 400, 522, 585
Excess Profit Tax	202	Fisheries — Bombay	382, 351
Exchange Banks	245	Fishing Hooks	363
Exchange Rates	117	Fishing Net	551
Exchange Value of Moneys	114	Flag Stone	566
Excise Duty	219	Flax	501
Exhibition—Kashmir	575	Floral Oil	505
Export Licensing	232	Floor Carpet	578
Export Prohibitions	126	Floor Stone Polishing	415
Export Trade Controller	128	Flooring Slabs	588
Export Tariff Schedule	219	Flooring Tiles	446, 518
Eye-glasses	422	Flour Grinding	351, 356, 359, 396, 432, 434, 442, 444, 450, 453, 458, 463, 465, 472, 484, 491, 492, 494, 495, 500, 504, 532, 537, 550, 556, 557, 569, 570, 574, 579, 588, 589
Fabrics	585	Flour Mills	432
Factories—Assam	521, Bihar 431, Central Provinces 505, Madras 403, Punjab 483, Sind 532, United Provinces 450	Flux	422
Fan	588, 592	Fodder Crops	349, 381, 420, 468, 479, 482, 484, 488, 490, 492, 496, 498, 500, 518

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527, 529, 537, 541, 558	Ganja	337, 515
568, 578, 586	Garad Cloth	360, 432
Fodder Grass 517	Garlic 411, 416, 438, 582, 595	
Foodgrains 411, 428	Garment Making — 526	
Food Grains Control Order, 1942 — 140	Garnet — 418, 590	
Food Grains (Futures and Options Prohibition) Order, 1942 — 140	Gas Works — 497	
Food Problems 231	Gelatine — 451	
Forage Presses — 527	Gems — 309	
Foreign Commercial Organisation in India — 189	General Engineering — 351	
Foreign Exports & Imports in 1941-42 — 222	General Review of Export Trade—Sind — 534	
Foreign Postal Rates 75	General Review of Import Trade—Sind — 534	
Foreign Merchandise Exports of — 224	General Rules of Indian Railway — 93	
Foreign Merchandise Imports of — 222	Genzies — 376	
Foreign Moneys with their English Equivalents 115	Georgettes — 582	
Foreign Trade during April to December 1942 231	Geranium — 522	
Foreign Trade—Bengal 354 Bombay 384 Madras 403, Sind 534	Ghee 372, 421, 432, 434, 438, 440 443, 449, 451, 453, 456, 464 511, 560, 594	
Forest Colleges 463, 630	Ghee Grading and Packing — 587	
Forest Products—Assam 520, Bihar 428 Bombay 382 Madras 402 Mysore 582	Ghee in UP 449, 451, 453, 456	
Frame Factories — 595	Gilding — 351	
French Territories, Civil Division — 348	Gilt Ornament — 361	
Fruit Plantation — 573	Gingelly 406, 411, 413, 416 420, 423, 426, 547	
Fruits & Vegetables 349, 366 388 381, 396, 400, 402, 408, 409 416, 420 427, 428 432, 436 438, 442, 464, 465, 468, 479 482, 484, 490, 511, 513, 516 525, 526, 527, 530, 531, 537 541, 544, 547, 549, 568, 579 582 586	Gingelly Oil — 406, 421	
Fuel 358, 382, 400, 518, 582	Ginger 389, 417, 454, 463, 467 500, 508, 592, 595	
Fuller's Earth 551 557	Ginning Factory 391, 453, 493 581, 585, 587	
Fur Blankets 417	Ginning & Cotton Presses — 567	
Furniture 458, 488, 523, 544, 574	Ginning and Pressing Factory 391, 412, 453, 484 489, 493, 496, 506, 509, 512 515, 517, 518, 527, 587, 541 551, 556, 561, 565, 569, 579	
Furniture Making 472, 494 559 583	Glass 380, 383, 405, 451 474, 483, 485, 513, 566	
Gabbas — 575	Glass Apparatus — 356	
Galena 566, 584, 590	Glass Bangles 389, 391, 392, 393 452, 467, 472, 483 485, 490, 493, 510 516	
Galicha — 471	Glass Blowing — 478	
Gall Nut 543, 547, 582	Glass Blown Wares & Sheets — 450	
Galvanised Wares — 356	Glass Bottles — 350, 460	
Galvanising — 356	Glass Factory 368, 369, 380, 391 450, 460, 504, 514, 550, 580	
Gamcha — 376	Glass Making 382, 393, 430, 441 460	
	Glass Vessels — 513	

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# 1294 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Glass Wares	351, 356, 431, 440	471, 473, 475, 476, 478, 480	
	453, 581	481, 484, 486, 488, 490, 492	
Glass Works	494, 516, 537, 581	494, 496, 497, 499, 503, 505	
Glazed Earthen Ware	581	509, 512, 516, 527, 529, 537	
Glazed Glass Ware	581	539, 551, 556, 558, 563, 566	
Glazed Wares	559	568, 571, 578, 582, 585, 590	
Ghee	405	594, 595	
Gold	382, 402, 421, 430, 442	Gramophone Factory	380
	446, 467, 476, 482, 549	Gramophone Records	380
	550, 568, 574, 580, 581	Gramophone Records mak-	
Gold & Gold dust	382	ing Company	380
Gold Lace	465, 492, 504, 568	Granite	402, 406, 430, 580, 588
Gold Mining Companies	583	Granite Quarries	564
Gold Ores	430	Grapes	395, 396, 407, 568
Gold Ornaments	358, 361, 583	Graphite	402, 430, 440, 467
	585		564, 574, 584, 596
Gold Output	309	Grass	392, 516, 522, 551, 556
Gold Prices	117		559, 573, 574, 593
Gold & Silver Filigree		Grass Matting	508
Work	546	Great Indian Peninsula	
Gold & Silver Jewellery of		Railway	90
Dacca	364	Green Earth	566
Gold & Silver Ornament	435, 548	Grinding Mills	461
Gold & Silver Works	351, 431, 516	Grinding Mill Stone	562
Gold Thread	356, 382, 388, 400	Grey Goods	272, 273, 274
	405, 514, 556, 577, 581		276, 277
Golpata	370	Groves of Arecas	370
Gondli	428	Groundnut	290, 349, 366, 381
Government Offices	190		391, 392, 396, 398, 401
Government of India	190		405, 406, 407, 409, 411
Govt of Assam	195		412, 414, 415, 416, 420
Bengal	192		421, 424, 426, 460, 471
Bihar	195		480, 503, 505, 509, 546
Bombay	192		547, 558, 568, 571, 573
Central Provinces	195		582, 588
Madras	193	Groundnut Exports	290
North West Frontier		Groundnut Oil	393, 421
Province	196	Groundnut Output	290
Orissa	196	Growth of the Jute Mill	
Punjab	194	Industry	279
Sind	196	Growth of the Textile	
United Provinces	194	Industry	
Government Weaving		Guano	413
Institute	525, 530	Guava	349, 362, 396, 398, 406
Grady Mission	226		448, 468, 470, 513
Grains	359, 361, 366, 368	Guggul	436
	373, 389, 391, 414, 415, 416	Gums	437, 463, 510, 574, 580
	420, 424, 427, 438, 448, 459		582, 590
	484, 486, 488, 490, 492, 496	Gun Carriage Factory	513
	497, 500, 503, 512, 517, 537	Gunmetal	361
	539, 544, 547, 556, 561, 581	Gunnies	378
	584, 585, 594	Gunny Bags	442, 546
Gram	349, 381, 388, 389	Gunny Bag Factory	426
	395, 399, 400, 401, 406, 413	Gunny Cloth	369, 560
	425, 428, 432, 434, 437, 438	Guns & Pistols	438
	440, 443, 445, 451, 452, 455	Gur	351, 360, 366, 370
	456, 458, 460, 465, 467, 469		438, 443, 472, 550

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# GENERAL INDEX

1295

Gur making	374, 376, 382, 437 468, 511, 530	Hosiery	356, 374, 392, 438 450, 472, 485, 494, 504
Gur, Output of	298, 550	Hosiery Goods	350, 383, 472
Gut	— 432	Hosiery Knitting	— 483
Gutli Logs	— 449	Hosiery Mills	380, 403, 437, 450 479, 483, 502, 540
Gypsum	424, 449, 463, 476, 487 492, 557, 574, 590		551, 556, 570
Gypsum Output	— 307	House Boats	— 364
Haldu	463, 476, 513	Hubble-bubble	— 459
Hand Fan	— 360	Hukkah Tobacco	— 436
Hand-made Cloth	— 562	Hukka	— 541
Hand-made Paper	363, 382, 453	Hume Pipe Factory	— 556
Hand Spinning & Weav-		Ice	— 392
ing	523, 596	Ice Factory	377, 380, 439, 472 494, 504, 514, 527, 539 453, 551, 557, 565, 572 573, 579, 589
Handicrafts	351, 382, 521, 553 565, 580, 583	Ilmenite	307, 593
Handloom Industry	275, 430, 570	Imperial Bank of India	— 243
Handloom Industry in		Imports & Exports—	
Bihar	— 430	Assam	523, Bengal 352,
Handloom Weaving	351, 380, 382 389, 392, 482, 565, 575, 580	Bombay	384, Calcutta
Hardware	357, 473, 546	357, Kathiawar	577, Ko
Harmonium Reeds	586	tah	578, Madras 403
Harness	488, 493	Import Control in India	— 134
Hats	— 356	Import Licensing	— 232
Hat Making	— 274	Import Schedule	— 208
Hematite	308, 440, 568	Imports & Exports dur-	
Hemp	453, 467, 470, 500 522, 566, 588	ing 1941-42	— 222
Hemp Sack Making	— 488	Incandescent Mantles	— 350
Hemp Strings & Rope	— 373	Income Tax Rates, Indian	201
Herbs	590, 595	Income Tax Surcharge on	203
Hides	371, 439	Income Tax, Present Scale	
Hides & Skins	356, 405, 410, 412 414, 463, 522, 585	of	— 203
Hilsa Fish	— 366	Index Numbers of Commo-	
Hockey Bats	— 500	dity Prices, Calcutta	— 335
Hogla Matting	— 358	Indian Customs Tariff	— 208
Hogla Grass Mats	— 369	Indian Customs and Cen-	
Honey	370, 410, 432, 436, 442 446, 463, 543, 555, 559 580, 582, 590	tral Excise Revenue	— 221
Hooka Making Industry	— 379	Indian Iron and Steel Co	350
Hookahs (Pipes etc)	441, 492, 546	Indian Monetary System	— 113
Horn Articles	356, 543	Indian States, Civil Divi-	
Horn Buttons	— 364	sions of	— 337
Horn Carving	351, 364	Indian States, Market	
Horn Crushing Factory	— 556	Places of	— 550
Horn Frame Industry	— 464	Indian States—Crops	550,
Horn Goods	— 367	Minerals	550, Industries
Horn Work Industry	— 358	550	
Horse Breeding	— 485	Indian Stock Exchanges	
Horse Cloth	— 450	in 1942	— 319
Horse Gram	413, 416, 426, 547 582	Indian Tea Control	
Horse Trappings	— 456	(Amendment) Ordinance,	
Hoses	— 551	1942	— 150
		Indianite Manufacturing	— 575
		Indigo	402, 407, 409, 415, 421 428, 433, 439, 444, 455 468, 472, 490, 497

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# 1296 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Indigo Making	472	516, 544, 549, 550
Indo-China Treaty	230	555, 564, 566, 568
Indolite Factory	556	570, 578, 580, 584
Industrial Enterprises, New	230	590, 592
Industrial and Technical Institutions	632	308
Industrial Possibilities of Bihar	431	358, 366
Industrial Possibilities in U P	450	392, 549
Industrial Production	227	Iron Industry in Mysore
Industrial Statistics Act, 1942	154	Iron Manufacture
Industries, Major—Baroda		Iron Production
553, Bengal 350, Bihar		Iron Pyrites
431, Bombay 383, Calcutta		Iron Rods
356, Central Provinces		Iron Safe
504, Indian States		Iron Smelting
550, Kashmir 575, Kotah		Iron Smelting Factory
State 578, Madras 402,		Iron Smelting and Steel
Punjab 428, Orissa 543,		Rolling Mills
United Provinces 449		Iron Smithy
Ink Making	356	Iron and Steel Factories
Insurance in India	255	Iron & Steel Industry
Insurance Business in India	256	Iron Utensils
Insurance Business on the Dividing Plan	261	Iron Vessels
Insurance, History of	255	Iron Wares
Insurance—New Business	258	Iron Work
Insurance Total Business in Force	258	Iron Workshops
Insurance, Recent Business Figures	262	Irrigation—Assam 521, Bengal 351, Bihar 429, Bombay 383, Central Provinces 505, Madras 403, Punjab 482, Sind 532
Insurance Companies, Distribution of	256	Ivory
Insurance Companies' Assets	261	Ivory Articles
Iron	350, 365, 402, 413, 416, 421, 430, 476, 482, 488, 504, 520, 561, 563, 574, 576, 591, 594, 596	Ivory Bangles
Iron Cart Bands	366	Ivory Carving
Iron & Engineering Workshops	356	Ivory Comb
Iron Foundry	380, 440, 463, 472, 485, 491, 492, 497, 502, 570, 586	Ivory & Tortoise Shell Work
Iron Goods	528	Ivory Toys
Iron Grill Work	553	Jack Fruit
Iron Jars	492	Jaggery
Iron Implements	564	Jagn
Iron Ore	397, 398, 415, 418, 421, 430, 432, 437, 440, 443, 446, 449, 467, 474, 493, 504, 508, 509, 511, 513	Jambul
		Jamun
		Janeira
		Jasmine
		Jasmine Oil
		Jasper
		Jellies
		Jewellery
		Jhinga
		Jodhpur Railway

**INVENTIONS OF TO-DAY** makes your information up-to-date. As. 5.  
**INDUSTRY BOOK DEPT., Shambazar, Calcutta.**

Joint Stock Bank	246	Karachi City—Occupations	
Jowar 381, 388, 390, 391, 392, 395		536, Trade 536, Industries	
396, 398, 399, 401, 414, 416		537	
420, 424, 427, 428, 432, 440		Kashmir—Live Stock 575,	
443, 445, 448, 451, 452, 456		Cattle Shows 575, Exhi-	
460, 465, 467, 469, 471, 476		bition 575, Industries 575,	
479, 480, 482, 484, 495, 496		Trade 576	
497, 503, 505, 507, 509, 512		Kasida Cloth	364
514, 517, 527, 537, 539, 541		Kataari Cloth	371
547, 551, 556, 558, 566, 568		Keora Water	456
571, 573, 578, 582, 586, 594		Kerosene Oil	359, 525
Jungle Products	359	Kerosene Tinning and	
Jute 283, 349, 360, 364, 365		Packing 351, 380, 403, 521	
366, 367, 368, 373, 375, 376		Khaddai 458, 460, 467, 473	
377, 378, 405, 426, 428, 432		476, 506	
442, 520, 524, 526, 543, 544		Khair 505, 509, 522	
546, 560		Khaibuzas	470
Jute, Area under	283	Khaigas	379
Jute Bag	360	Khari Masui	441
Jute Bag Exports	281	Khari Salt	433, 445
Jute Cloth Exports	281	Khaskhas	470
Jute Consumption in India	281	Khesa Cloth	432
Jute Export Figures	281	Khesari 428, 432, 434, 444, 448	
Jute Export Trade, Deve-		473, 560	
lopment of	281	Khurpa	452
Jute & Hemp Cords	363	Kimam	501
Jute Industry, Importance		Kinkhab 382, 501, 540	
of	279	Knitting Mill	437
Jute Industry, Present		Knives 375, 382, 443, 460	
Position of	282	480, 541, 564, 568	
Jute Mattresses	365	Kodan 399, 428, 434, 455, 456	
Jute in 1941-42, World		458, 468, 470, 477, 507	
Consumption of	282	508, 512, 516, 590	
Jute Mills 350, 367, 369, 380, 403		Kodo-Kutki	510
412, 414, 426, 431, 434		Kodra	593
439, 442, 450, 463		Kokti Cloth	434
Jute Mills Industry	279	Korai Grass (mats)	423
Jute Mill Industry, Growth		Korra 405, 408, 415	
of	279	Kraft Paper	554
Jute Mill Production	280	Kukris 365, 467, 546	
Jute Mill Stock, Indian	281	Kulith 388, 390, 395, 396, 397	
Jute Mills Working Hours	281	399, 428, 548, 560, 563	
Jute Output	283	Kusum Seeds	580
Jute Pressing	363	Kutki 507, 510, 512, 558	
Jute Presses 350, 369, 376, 378		Kvanite 307, 418, 430, 580	
379, 380, 427		Labour Problem	230
Jute Production	282	Lac 365, 428, 435, 436, 440, 442	
Jute Weaving	379	463, 480, 507, 508, 555, 566	
Kaematite Belts	580	575, 580, 582, 590	
Kalai 367, 428, 432		Lac Bangles 358, 513, 521, 546	
Kamdani 472		Lac Bracelets	432
Kankar 446, 452, 480, 504		Lac Factory 380, 431, 436, 437	
580, 585		444	
Kankai Lane	551	Lac Industry	382, 508
Kaon	560	Lac Ornaments	440, 546
Kaolin 413, 574, 578, 583, 584		Lac Work	351, 359
Karani	382	Lace Cloth 411, 419, 422	

INVENTIONS OF TO-DAY makes your information up-to-date. As 5.  
INDUSTRY BOOK DEPT., Shambazar, Calcutta.

# 1298 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Lace Making	351, 405, 414, 427	520, 523, 526, 543, 550, 558		
	585	574, 578, 590		
Lace Works	422	Linseed Export	291	
Lacquer Work	415, 427, 498, 537	Linseed Output	291	
	542, 553, 567, 571, 572	Lloyd Barrage Canal		
Lacquered Toys	359, 474	System	531	
Lacquered Wares	402, 487, 510	Loaf Making	373	
	529	Loan Offices	253	
Lacquered Wood Works	490, 516	Lock Factories	416, 452	
	528	Locks	372, 450, 452, 485, 572	
Land Mortgage Bank	253	Logs of Sal	359	
Lapidary Art	441	Looking Glass Frame	451	
Laterite	402, 413, 416, 440, 443	London Exchange Quota-		
	580, 588	tions	117	
Laundry Work	356	Lubricating Oils	395	
Lead	430, 463, 467, 520, 558	Lubricants	451	
	574, 594	Lungi Weaving	529	
Lead Ore	430	Lungies	364, 375, 402, 489	
Lead Smelting and Lead			538	
Rolling Mill	351	Lustre	576	
Lease-Lend Aid	226, 234	Madder	365, 435	
Lead Vessels	422	Madras and Southern		
Leather	393, 405, 407, 485	Mahratta Railway	91	
	491, 494, 497, 504	Madras Presidency—Soil		
Leather Factories	403, 480, 504	401, Livestock	401,	
Leather Goods	356, 450, 451, 463	Crops	401, Coffee	402,
	467, 488, 494, 530, 539, 579	Forests	402, Minerals	
Leather Manufacture	351	402, Industries	402, Fac-	
Leather Work	388, 401, 518, 575	tories	403, Sugar Fac-	
Legmatite	436	tories	403, Fisheries	403,
Lemons	459, 487	Trade	403, New Regis-	
Lemongrass	522	tation	403, Irrigation	
Lentils	437, 546	403, Transport	403,	
Lichees	362, 429, 438	Foreign Trade	403, Im-	
Life Assurance Business	257	port Trade	403, Export	
Life Assurance Fund	260	Trade	404, Distribution	
Life Assurance Companies		of Trade	404, Coasting	
Assets of	261	Trade in Madras Presi-		
Life Business outside		dency	404	
India by Indian Com-		Madras Presidency, Mar-		
panies	259	ket Places of	401	
Life Insurance in India	254	Magnesite	402, 430	
Lignite	557, 574	Magnesite Ore	421	
Lime	448, 463, 504, 513	Magnesite output	307	
	522, 526, 564, 592	Magnesium Chloride	553, 562	
Lime Factory	431, 504	Mahua	382, 440, 443, 448	
Limestone	309, 389, 398, 402, 421		467, 510, 548	
	430, 446, 449, 492, 504, 508	Maize	349, 358, 381, 391, 401	
	511, 513, 518, 520, 526, 550		415, 428, 432, 434, 437, 438	
	551, 557, 564, 566, 570, 571		440, 442, 444, 446, 448, 452	
	574, 578, 587, 590, 594		454, 456, 458, 460, 465, 468	
Limestone Quarries	564		469, 471, 474, 479, 480, 481	
Limonite	440		484, 488, 490, 492, 494, 496	
Linseed	290, 349, 381, 388, 390		497, 500, 503, 513, 523, 525	
	395, 428, 432, 438, 440, 444		527, 529, 546, 558, 560, 563	
	448, 469, 471, 473, 481, 484		566, 568, 571, 573, 578, 586	
	503, 507, 509, 512, 514, 516		590, 594, 595	

Manufacturing processes of paints, varnishes and sealing wax explained in Prospective Industries. Re. 1/12. Industry Book Dept., Cal.

Malakand Scheme	528	Matka Chaddars, Dhuties,	
Mangalore Tiles	594	Saries	376
Manganese	382, 391, 402, 408	Matka Weaving	371
425, 430, 510, 514, 544, 550		Matting	417, 539
558, 564, 568, 583, 591		Mattocks	443
Manganese Ore	356, 398, 504, 507	Melon	349, 375, 415, 448
508, 513, 547, 566, 591		Mercantile Marine	648
Manganese Output	307	Metal	405, 451, 456, 508
Manganese Quarries	393	Metal Factories	388
Mango	349, 371	Metal Inlaying	351
373, 374, 377, 382, 389, 394		Metal Utensil	374, 450, 474
398, 407, 429, 432, 438, 440			501, 581
448, 467, 469, 479, 487, 490		Metal Vessels	479, 540
492, 496, 497, 503, 510, 512		Metalware	351, 422, 575
514, 520, 568, 576, 582, 590		Metal Works	402, 422, 423, 489
Mango Groves & Gardens	371		537, 539, 567, 570
Manure	405, 563		575, 581, 589
Marble	507, 513, 528, 551, 561	Mica	402, 418, 430, 435, 436
571, 574, 585, 594			442, 474, 544, 546, 549
Marble Toys	451, 572		555, 566, 576, 583, 590
Marble Utensils	459		596
Market Places of—Assam		Mica Mine	436, 438
519, Bengal 349, Bihar		Mica Ore	421
428, Bombay 381, Central		Mica Output	309
Provinces 503, Delhi 501,		Millet	390, 401, 409, 428, 432
Indian States 550, Mad-			446, 448, 454, 457, 467
ras 401, Nepal 595,			470, 477, 481, 484, 487
North West Frontier			489, 494, 525, 538, 546
Province 527, Orissa 543,			552, 554, 563, 579, 595
Punjab 481, Sind 581,		Minerals—Assam 520, Ben-	
United Provinces 448		gal 351, Bihar 429, Bom-	
Maritime Trade—Sind	532	bay 382, Central Provin-	
Marua	381, 416, 420, 424, 428	ces 504, Hyderabad State	
432, 443, 445, 454, 475		568, Indian States 550,	
543, 545, 547, 563		Madras 402, Mysore	
Masonry Stone Quartzite	551	583, North West Fron-	
Masonry Work	351, 580	tier Province 528, Orissa	
Masur	357, 432, 448, 455, 456	544, Punjab 482, United	
458, 468, 470, 473, 476		Provinces 449	
479, 558, 560		Minerals	405, 538
Mat Making	351, 358, 360, 366	Mineral Oils	486, 552
370, 372, 407, 409, 423		Mineral Resources of	
434, 439, 442, 467, 487		India	306
497, 504, 516, 521, 526		Minerals Produced in	
544, 546, 572, 580		India, Value of	306
Mat Weaving	530	Minor Railways in India	93
Mats & Matting	508, 559	Miscellaneous Institutions	659
Mats of Karai Grass	423	Mohua	436, 513, 514, 516
Match Factory	363, 373, 377, 380	Molasses	358, 369, 370, 373
383, 388, 403, 431, 458, 476			389, 432, 492, 553
483, 494, 504, 510, 514, 524		Molasses, Production of	304
550, 553, 556, 573, 580, 581		Molybdenum	430
588, 595		Monazite	307, 593
Match Making	350, 356, 364, 380	Money Markets	225
392, 405, 450, 483, 575		Monetary System—	
578, 579		Indian	113
Math	388, 390, 396, 398, 399, 516		

Manufacturing processes of paints, varnishes and sealing wax explained in Prospective Industries. Re. 1/12 Industry Book Dept., Cal.

# 1300 INDUSTRY YEAR BOOK & DIRECTORY, 1943

## Monetary Units—British

Indian	114
Money Market, Indian	113
Mosquito Curtain	380, 523
Mosquito Curtain Cloth	365
Mosquito Net	375
Mosuri	360
Mother of Pearl Buttons	364
Motia Cloth	436
Motor Tyres	350
Muga Silk	521, 526
Mulberry	376, 410, 421, 476
Mulberry Rearing	361, 371
Mulberry Silk Weaving	359, 372
Mung (Sona)	360, 390, 394, 396
	398, 434, 516, 543, 548
	558, 560, 563, 571, 573
Musical Instruments	351, 356
Muslin	489, 558
Mustard	448, 467, 481, 523
	544, 563, 579, 582
Mustard Oil	351, 373, 438, 560
Mustard Seed	349, 360, 364
	443, 444, 473, 572
Mustard Seed Exports	292
Mustard Seed Output	292
Myrobalan	382, 410, 436, 543
	547, 555, 580, 590

Mysore—Forest 582, Textile Industry 582, Sericulture 582, Woollen Industry 583, Iron Industry 583, Handicrafts 583, Minerals 583, Trade 584, Government Factories 584, War Efforts 585

Mysore State Railway	91
Nageswar	377
Nail Making	356, 372
Nalchias	379
Namda	575
Napkins	380, 437
Narcotics	415
Natural Gas	574
Neem	475, 561

Nepal—Agriculture 595, Animals 595, Banking and Finance 595, Industrial Exhibition 595, Sylviculture 595, Mines and Mineral Deposits 596, Cotton Cultivation and Textile Manufacture 596, Exports from Nepal to India 596, Imports from India into Nepal 596, Imports from

Abroad 597, Imports from India and Abroad into Nepal 597, Exports from Nepal to Tibet 597, Imports from Tibet into Nepal 597, Centres of Trade 597, Fairs 597.

Net Making	434
Net Money Bag	513
New Registrations—	
Madras	403
Newar	480, 507
Newari Weaving	368
Nibs	356
Nib Making Factory	379, 576
Nickel	430, 574
Niger Seed	394, 395, 396, 397
Nizam's Dominions, Civil Divisions	346
Nizam's State Ry.	91
Non-Scheduled Bank	250
North West Frontier Province—M o l a k a n d Scheme 528, Minerals 528	
North Western Railway	92
Nut Crackers	357, 370, 372, 512
	565
Nux Vomica	417, 543, 559
	580, 588
Oak	476, 522
Oats	432, 434, 445, 595
Ochies	415, 418, 513, 566
	574, 580, 583, 590
Ochies Mines	509
Oil	361, 362, 391, 405, 413
	417, 432, 435, 436, 435
	530, 538, 565
Oil Cake	361, 367, 432, 435, 436
Oil Crushing	511, 556
Oil Expeller	406, 570
Oil Milling	487, 504
Oil Extraction	580
Oil Mills	351, 356, 358, 361, 380
	388, 391, 392, 403, 405
	412, 420, 426, 431, 432
	434, 438, 439, 442, 443
	444, 446, 450, 453, 458
	459, 463, 465, 468, 472
	476, 483, 493, 494, 496
	504, 508, 510, 512, 514
	516, 521, 523, 526, 532
	537, 550, 553, 556, 557
	561, 565, 575, 581, 585
	587, 589
Oil Pressing	351, 399, 434, 504
	506, 518, 559, 561, 578

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537, 541, 543, 546, 548	Oil Seeds	288, 349, 361, 364, 370	
550, 553, 560, 574, 586		389, 399, 400, 405, 407	
595		415, 428, 432, 438, 442	
Oil Seeds Output		443, 446, 448, 453, 455	
Oil Spring		457, 459, 470, 476, 481	
"Oil"		484, 498, 503, 505, 507	
Onions	411, 438, 573, 595	509, 511, 513, 517, 531	
Opium	444, 558	Paper Manufacture	517, 560
Optical Instruments	351	Paper Mill	380, 396, 403, 412
Oranges	396, 407, 411, 419, 448		431, 446, 450, 472, 476
	503, 510, 514, 523, 526		485, 549, 550, 570
	547, 568, 579	Paper and Pasteboards	357
Orange Garden	514, 517	Paper Pulp	350, 363, 521, 523
Orchards	374, 439	Paper Pulp Mill	482
Ordnance Factories	527, 654	Papier Mache	460, 576
O r i s s a—Natural Re-		Pashmina	483, 488
sources 543, Crops 543,		Patal	360
Industries 543, Minerals		Patamis	442
544, Coasting Trade 544		Peach	448, 513, 530
Ornamental Brassware	456, 474	Pear	476, 492
Ornamental Curtains	475	Pearl	576
Ornamental Glassware	351	Pearl Fisheries	363, 373, 423
Ornamental Stone	584, 590	Peas	428, 443, 448, 453, 455
Ornamental Works	555		456, 458, 467, 470, 476
Ornaments	516, 524		479, 559, 582
Ornaments Making	437	Peat	449
Otto	465	Pen	356
Other Scheduled & Burma		Pen Boxes	461
Scheduled Banks	250	Pencils	356
Oudh Tribut Railway	92	Penholder	410, 546, 576
Ovens	588	Pen Stand	460
Oysters	357	Pepper (Red)	393, 413, 417, 436
Paddy	358, 360, 361, 367, 369		443, 463, 467, 520
	391, 407, 411, 412, 415		592, 595
	416, 420, 422, 425, 432	Peppermint Factory	590
	446, 539, 547, 553, 573	Perfume	356
	579, 582	Perfume Sticks	577
Paddy Husking	518	Petroleum	482, 486, 495, 520
Padlock	368, 380, 435, 450		530, 574
Pagrees	367	Petroleum Oil	520
Paints	350, 383	Petroleum Output	309
Paint Factory	380, 569, 581	Petroleum Refineries	483, 521
Paint Works	502, 504	Pharmaceutical Drugs	553
Palanquins	439, 456	Phosphatic Nodules	424
Palm	520, 592	Phulkaris	528
Palmgur	518, 543	Pickle Jars	559
Palm-leaf Hand Fans	367	Pickles	465
Palm Sugar	405	Picks	443
Palmyra	382, 538	Piecegoods	406, 553
Palmyra Gui	543	Piecegoods, Coloured	272, 273
Palmyra-jaggery	407, 529	Piecegoods, Exports of	275
Papaya	396, 443, 520	Piecegoods, Grey &	
Paper Control Order	154	Bleached	385
Paper Making	350, 361, 367, 383	Piecegoods, Imports of	276
	373, 376, 389, 392, 406	Piecegoods, Production of	273, 274
	431, 446, 450, 479, 517	Pig Iron	356, 583
	575, 578, 593	Pig Iron, Export of	308

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INDUSTRY BOOK DEPT., 22, R. G. Kar Road, Shambazar, Calcutta.



# 1302 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Pig Iron, Output	311	445, 450, 461, 474, 483
Pillow	-- 475	498, 504, 513, 521, 524
Pine	419, 522	526, 537, 546, 571, 575
Pineapple	349, 362, 394, 448	579, 580, 588, 594, 598
	513, 520	Pottery Earth and Clays 430, 566
Pipe Work	-- 521	Pottery Works 431, 502, 510, 514
Pistachio	486	521, 550, 581
Pith Models	422	Prayer Seats -- 376
Pith Toys	422	Precious Stones -- 405, 451
Plantain	349, 362, 364, 367	Price Movement of Com-
	377, 411, 417, 421	modities 330
	422, 439, 448, 508	Prices of Principal Com-
	520, 582, 590	modities 331
Planters' Associations	-- 187	Printed Cloth 356, 414
Plates	436, 451	Printing 450, 466, 528
Platinum	520	Printing Presses 514, 527, 540
Playing Cards	466	556, 578, 589
Ploughs	366, 443	Protective Measures 230
Plywood Factory	356, 380	Provident Insurance So-
Plywood Industry	351	cieties -- 261
Polo Sticks	356	Pugrees -- 396
Pomegranate	406, 448, 497, 515	Pulses 349, 356, 357, 358, 361
	530	364, 366, 367, 370, 373
Pomelo and Limes	362	381, 389, 390, 392, 393
Pomphrets	587	394, 397, 400, 402, 408
Pondrontee	381	409, 410, 414, 415, 416
Poon	582	420, 424, 427, 428, 432
Poppy	429, 438, 445, 455, 457	438, 440, 442, 444, 448
	458, 468, 474, 478, 558	456, 458, 465, 467, 469
	571, 594	471, 474, 476, 479, 480
Porcelain	552, 591	484, 486, 488, 490, 492
Porcelain Factory	-- 593	495, 497, 500, 503, 505
Porcelain Metal cups	552	508, 509, 511, 512, 514
Porcelain Wares	356	516, 523, 526, 528, 529
Port charges		537, 539, 541, 543, 544
Port of Bombay	106	546, 547, 549, 551, 553
Port of Calcutta	-- 104	558, 561, 563, 566, 568
Port of Karachi	108	571, 579, 582, 585
Port of Madras	108	Pulse Grinding 557
Port of Chittagong	109	Pumpkin 367, 443, 525, 563
Portuguese Territories,		Punjab—Climate 481, Soil
Civil Divisions	348	481, Crops 481, Irriga-
Post-war Re-construction		tion 482, Cattle 482, Tim-
Fund	237	ber 482, Minerals 482,
Postal Information	71	Cottage Industries 482,
Postal Rates, Foreign	75	Major Industries 483,
Postal Rates, Inland	73	Factories 483, Trade
Potatoes	360, 367, 369, 374, 391	483, Transport and Com-
	398, 429, 432, 434, 436	munication 484
	440, 441, 443, 454, 465	Punjal Oil 375
	475, 480, 493, 500, 513	Quartz 430, 436, 566, 578, 584
	525, 579, 582, 595	Quartzite 580
Potstone	421, 508, 511, 590	Quinces -- 530
Potteries	350, 351, 356, 359, 361	Radio Accessories -- 356
	366, 372, 373, 374, 376	Radio Training Institu-
	379, 382, 383, 388, 405	tion -- 654
	413, 431, 433, 439, 440	Radishes 429, 595

If you want to market Crops, learn preliminary process from PREPAR-  
ING CROPS FOR THE MARKETS. Re. 1/12. Industry Book Dept., Cal.

Ragi	381, 388, 393, 400, 401 405, 406, 409, 410, 415 421, 426, 428, 438, 442 547, 559, 568, 582	Reed	370, 464, 593
Railway & River Borne		Refining and Smelting of	
Trade—Central Pro-		Nonferrous alloys	— 383
vinces 505, Assam 523		Refractories	430, 591
Railway Budget	238	Reh	— 566
Railways Capital at		Relative Time	— 125
Charge	86	Reserve Bank of India	— 241
Railway Contribution to		Resin	435, 436, 463, 483, 574 580, 596
General Revenues	83	Resin Factory	— 494
Railway Earnings	85	Revenue Portion	— 235
Railway Expenses, State	86	Rice	286, 349, 356, 357, 360, 361 362, 364, 365, 367, 368, 370 394, 395, 396, 397, 398, 400 401, 405, 406, 409, 410, 413 414, 415, 416, 420, 421, 424 427, 428, 432, 434, 437, 438 440, 442, 444, 446, 448, 454 456, 458, 459, 463, 467, 469 471, 476, 478, 480, 481, 484 486, 488, 490, 493, 494, 496 497, 499, 503, 505, 507, 509 511, 512, 516, 520, 523, 525 527, 529, 531, 537, 539, 541 543, 544, 546, 547, 549, 552 573, 579, 582, 590, 592, 595
Railway Annuities, Pay-		Rice Grinding	— 538
ment of	95	Rice Hullers	— 557
Railway Finance	83	Rice Husking	356, 497, 539, 542
Railway, General Rules	93	Rice Milling	351, 427, 431, 433 444
Railway Goods Tariff	94	Rice Mills	351, 356, 358, 361, 367 369, 372, 380, 403, 410 412, 414, 426, 427, 431 433, 435, 439, 443, 444 458, 472, 483, 504, 508 510, 521, 525, 526, 532 539, 541, 543, 544, 547 549, 575
Railway Information	83	Rice Output	— 287
Railway, Munitions Pro-		Rock Oil	— 495
duction in India	86	Rock Salt	495, 596
Railway, Rolling Stock		Rohilkund & Kumaon	
Programme for 1943-44	87	Rly Co, Ltd,	— 93
Railway Sterling Liabil-		Roofing Tiles	— 369
ities, Payment of	96	Rope	367, 369, 380, 413, 417 437, 450, 460, 511, 542 580, 588
Railway Transport Difficul-		Rope Factory	— 380
ties, India's	96	Rope Sacking	— 439
Railway Rates Advisory		Rope Works	— 403
Committee	87	Rose	419, 444
Railway Works Pro-		Rose Water	465, 467
gramme for 1941-42	87	Rose Wood	— 559
Railways, State Earnings	85	Rosin	— 458
Railway System in India	87	Rubber	295, 421, 550, 559
Railway, Wagon Loaded	86		
Raisins	486		
Ramnad Sarees	420		
Ramdaos	357, 379		
Rampatu	413		
Rape & Mustard	366, 428, 432 440, 442, 446, 448, 471 475, 481, 484, 486, 488 493, 496, 497, 503, 526 527, 531, 537, 543, 545 550, 551, 556, 566, 574		
Rape Seed	349, 438, 471, 494, 527 539, 551, 554, 558		
Rape Seed Export	292		
Rape Seed Output	292		
Rattan Manufacture	413		
Razors	357, 419		
Razor Blades	383		
Reciprocal Lease-Lend	234		
Reconstruction Funds	237		
Rectified Spirit	553		
Red Pepper See Pepper (Red)			

If you want to market Crops, learn preliminary process from PREPAR-  
ING CROPS FOR THE MARKETS. Re. 1/12. Industry Book Dept, Cal.

# 1304 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Rubber Control Order, 1942	146	Sandal Wood Carving	577, 583
Rubber Estate	295		584
Rubber Exports	295	Sandal Wood Factory	584
Rubber Factory	556, 560, 593	Sandal Wood Oil	584
Rubber Goods	357, 553	Sandstone	430, 509, 516, 550, 557
Rubber Manufactures Con- trol Order, 1942	144		558, 594
Rubber Output	295	Sapphires	574
Rubber Shoes	350, 356	Sarda Canal Scheme	449
Rubber Shoe Factory	380	Sardines	417
Rubber Tree	402	Saiguja	429, 446
Ruby	421, 452	Saries	365, 375, 382, 389, 402
Rudrakha	459		420, 551, 558
Rue	465	Saison	469, 574
Rugs	375, 433, 435, 450, 452	Satisford	363
	461, 470, 482, 486, 494	Satinwood	421, 514
	537, 539, 544, 551, 583	Satranjies	365, 378, 451
Rum	463, 478, 488		471, 500
Sabai Grass	429, 434, 443, 450	Saw Mills	351, 356, 380, 403
	463, 471, 481, 511		468, 494, 504, 510
	580, 590, 595		521, 523, 525, 547
Sacred Thread	439		590
Sacrificial Knives	370	Scented Oils	456, 465, 470
Saddle	450, 485, 537, 539, 572	Scheduled Bank in 1940	249
Saddle Bags	486	Schleichera	596
Saddlery	498	Scientific Apparatus	
Saddlery & Harness		Factory	484
Making	463, 494	Scientific Instruments	451
Safflower	388, 390, 396	Scissors	357, 370, 375, 473, 480
Sain	463	Scope for New Industry in	
Saju	487	Bombay	383
Sal	365, 440, 443, 463, 467, 476	Screen Cloths	359
	477, 478, 482, 509, 510, 513	Screw pine	470
	516, 519, 520, 522, 524, 543	Screws	351
	547, 549, 579	Seasons of Shipment	111
Sal Ammoniac	482	Seasons Relating to	
Salma	501	Weather	112
Salt	363, 382, 392, 394, 397	Seeds	361, 373, 436, 491
	400, 402, 416, 419, 423	Seeds and Seedling	415
	430, 480, 482, 498, 538	Semalwood	433
	539, 541, 544, 550, 556	Semul Logs	449
	562, 572	Separation Convention	238
Salt Factory	422, 553	Sericulture	351, 483, 521, 582
Salt Mines	492, 530	Sericulture in Mysore	582
Salt Work	394, 400, 553, 571, 581	Sericultural Institutions	599
	587	Serpentine	564
Saltpetre	399, 402, 410, 421, 430	Serpentine	574
	432, 439, 444, 453, 461	Serums & Vaccines	356
	480, 482, 494, 495, 498	Sesamum	292, 349, 364, 381
	550, 552, 561, 566, 585		388, 390, 392, 394, 401
Saltimber	446		409, 416, 420, 424, 427
Samal	423		428, 442, 443, 456, 467
Sand	596		470, 474, 481, 484, 503
Sandal	410, 412, 491		507, 509, 512, 516, 537
Sandal Wood	382, 394, 402, 406		539, 543, 547, 549, 550
	582, 591		551, 556, 558, 563, 566
			566, 568, 571, 573, 578
			582, 587, 594

The Sphere of Tea: An exposition of the Cultivation, Manufacture and Trade of Tea in India. Rs. 3. Industry Book Dept., Shambazar, Calcutta.

Sesamum Output	--	292	Silk and Tassar Cloth	--	358
Sesamum Export	--	293	Silk Thread	538, 553, 565	
Seti Mustard Seed	--	436	Silk Throwing Factory	--	582
Shaddock	--	448	Silk Ware	--	568
Share Quotations	--	321	Silk Weaving	358, 360, 361, 363, 371, 372, 373, 382, 400	
Shawl Weaving	--	494		402, 408, 410, 416, 420	
Shell	--	370		422, 424, 449, 486, 492	
Shell Bangles	358, 364			497, 543, 575, 584	
Shell Bracelets	--	376	Silk Weaving Factory	--	575
Shell Buttons	--	364	Silk Worm	--	351, 524
Shell Ornaments	351, 359		Silliminite	--	590
Shellac	437, 442, 444, 474		Silver	430, 437, 520, 583	
	580, 596		Silver Filigree Work	--	546
Shellac Factory	--	450	Silver & Gold Ware	440, 501	
Ship Building	363, 380, 587		Silver Lace Weaving	--	504
Ships' Emergency Rations			Silver Lace Work	--	568
Order	--	112	Silver Ornament	358, 361, 545	
Shipment, Seasons of	--	111		581, 583, 585	
Shipping, Coastal and			Silver Prices	--	117
Inland	--	98	Silver Thread	388, 400, 405	
Shipping Information	--	97		514, 577	
Shipping, Overseas	--	99	Silver Vessels	--	396
Shusham	463, 468, 472, 476, 478		Silver Ware	402, 422, 469	
	487, 498, 510			474, 575	
Shushu	377, 467, 522		Silver Work	396, 546, 561, 587	
Shoe Making	359, 371, 376, 441		Sind—Crops	531, Llyod	
	460, 511, 580		Barrage Canal System		
Shoes	359, 378, 388, 440, 443		531, Irrigation	532,	
	485, 489, 497, 521, 537		Cotton growing in Sind		
	539, 546, 571		532, Factories	532, Mari-	
Shoe Factory	--	380, 403	time Trade of Sind	532,	
Shovels	--	564	Foreign Trade	534,	
Sickles	--	564	Coasting Trade	535, Sub-	
Silica	430, 596		ordinate Ports in Sind	535	
Sillimanite	307, 430, 590		Sitalpati Mats	358, 366, 373, 375	
Silk Cloth, Endi Matka	358, 365			379	
	369, 390, 391, 405, 415		Skins	--	407
	432, 459, 489, 510, 521		Slabs	--	411
	524, 561, 564		Slate	383, 415, 419, 430, 437	
Silk Cloth Weaving	407, 424, 487			482, 551, 570, 574, 580	
	555		Slate Factory	--	570
Silk Embroidery	--	565	Slate Stone	--	583
Silk Fabrics	392, 409, 506, 514		Small-Scale Industries	--	228
	521, 582, 585		Smuthy	--	504
Silk Farm	--	585	Snuff	393, 486, 562, 579	
Silk Filatures	380, 550		Soap	350, 356, 383, 405, 473	
Silk Goods	356, 388, 390, 395			483, 485, 491, 497, 538	
	583			556, 566, 575	
Silk Handloom Weaving	--	594	Soap Factory	375, 379, 380, 472	
Silk Industry	395, 410			549, 550, 557, 566, 579	
	506, 525			588, 589	
Silk Lungi	363, 491, 552		Soap Making	392, 413, 450, 488	
Silk Mill	380, 403, 450, 483, 556			518, 537, 588	
Silk (Raw)	371, 446		Soap nut	410, 582	
Silk Reeling	351, 372, 575		Soapstone	430, 437, 443, 584	
Silk Series	405, 422				
Silk Series & Dhuties	--	399			

The Sphere of Tea: An exposition of the Cultivation, Manufacture and Trade of Tea in India. Rs 3 Industry Book Dept., Shambazar, Calcutta.

# 1306 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Soda	552	Stone Articles	451
Soda Alkalies	562	Stone Barytes	596
Soda Ash	450, 492	Stone Carving	431, 475, 574
Soft stone carving	351	Stone Cuttings	441, 446
Soil—Assam 519, Bombay		Stone Dishes	564
381, Central Province		Stone Jais	508
503, Madras 401, Punjab		Stone Quarries	359, 546, 555
481, United Province 448.			566, 578
Sola Garland	363	Stone Toys	594
South India Railway	93	Stone Ware	435, 436, 548
Soyabean	391		545, 562
Spade	379, 452, 564	Stone Work	382
Spear Heads	382, 526	Straw Berries	398, 582
Spices	381, 392, 401, 475	Straw Board	554
	520, 556, 558, 574	Straw Board Factory	478
Spices Plantations	412	Strings	469
Spindles and Loom in		Subordinate Ports in Sind	535
India	271	Sugar Candy	356, 556, 565
Spinning & Weaving 380, 388, 407		Sugar Cane	349, 358, 362
410, 416, 517, 569, 581, 589		364, 365, 366, 381, 388, 391, 393	
Spinning Wheel	496	396, 398, 399, 401, 406, 407, 410	
Spirits	394	411, 413, 415, 416, 421, 426, 428	
Spoons	442	432, 434, 438, 440, 443, 444, 448	
Sports	575	452, 455, 456, 458, 459, 468, 469	
Sporting Goods	356, 483, 500	471, 474, 476, 478, 480, 481, 484	
Stamp Duties, Indian	204	488, 490, 493, 496, 498, 500, 501	
Starch	554, 568	503, 517, 523, 526, 527, 530, 537	
Starch Factory	483, 554	539, 544, 545, 547, 549, 557, 558	
Steam Mill	487	560, 563, 566, 568, 570, 571, 573	
Steam Presses	577	579, 581, 582, 585, 590, 594, 595	
Steatite	308, 415, 419, 430	Sugar Cane, Area Under	297
	504, 513, 580	Sugar Cane, Output	298
Steatite Output	308	Sugar Cane Pressing	445, 459
Steatitic Schists	508	Sugar Centrifugal Machine	461
Steel Boxes	364	Sugar Control Order, 1942:	
Steel Ingots	583	(Revised)	150
Steel Ingots Output	310	Sugar Export	305
Steel Output	311	Sugar Factory	398, 403
Steel Rolling Mills	403	409, 414, 425, 426, 429, 431, 433	
Steel Trunks	356, 364, 372	439, 444, 446, 450, 452, 463, 464	
	373, 376, 492	468, 471, 473, 476, 478, 540, 547	
Steel Trunk Factories	589	550, 557, 570, 585	
Steel Wire	583	Sugar Factories, Provin-	
Sterling Balances, Utilisa-		cial Distribution of	299
tion of	237	Sugar Factories in U. P.	450
Sterling Debt Repatria-		„ Madras	403
tion	226, 236	Sugar Imports	305
Sterling Purchases	225	Sugar Industry, Develop-	
Stew-pots	559	ment of the	296
Sticks	546	Sugar Industry—	
Stick Lac	446	Cane Crushing Season	303
Stirrups	485	Working Days	303
Stock Exchange Market	319	Sugar Industry	433, 434, 435
Stocks Quotations for 1942	320	Sugar Industry, Indian	296
Stockings & Comforts	376	Sugar Making	370, 374, 381, 382
Stone	359, 402, 453, 474, 482		389, 405, 415, 421, 431, 435, 446
	505, 555, 566, 573, 585, 596		

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# GENERAL INDEX

1307

466, 470, 476, 478, 488, 492, 496	Tanning Institutions	—	656
497, 547, 550, 553	Tape	—	419
Sugar Mills 351, 366, 374, 376	Tape Making	—	504
431, 445, 450, 454, 457	Tape and Newar Weaving	—	368
460, 463, 472, 480	Tape Weaving	—	463
Sugar Production by Factories 299 300	Tapioca	417, 559, 592	
Sugar Production from Gu 303	Taramia	—	557
Sugar Output, Direct from Cane — 299	Targets	—	400
Sugar, Output of, from Cane — 299	Tassar Cloth Weaving	436, 548	564
Sugar Output During last 15 years — 302	Tassar Cocoons	555, 580	
Sugar, Quality of — 301	Tassar Fabrics	—	580
Sugar, Recovery of — 302	Tassar & Garad Cloth	—	360
Sugar Recovery from Gu 305	Tassar Goods	—	508
Sugar, Refined from Gu — 303	Tassar Industry	—	504
Sugar-refining 423, 439, 446, 455	Tassar & Mulberry Silk Production	—	504
458, 460, 464, 466, 474, 477, 494	Tassar Silk	430, 432, 440, 446	474, 508, 540
Sugar Standard, Indian — 301	Tassar Silk Weaving	437, 512, 516	549, 568
Sugar, Tariff Board Report 297	Tassar Weaving	359, 361, 367	372, 543
Sugar Yielding Palms — 349	Tatpatti	450, 466, 574	
Suit Cases 376, 380	Taxations, Proposed	—	237
Sunn — 375	Tea 293, 349, 351, 356, 362, 365		
Sulphate of Soda — 464	369, 378, 401, 410, 416, 419		
Sulphur 309, 463, 467, 476, 580	423, 428, 442, 463, 475, 482		
Sulphuric Acid — 405	493, 520, 523, 525, 526, 550		559, 582, 592
Sulphuric Acid Control Order, 1942 — 187	Tea, Area	—	294
Sulphurate of Antimony — 432	Tea Exports	—	294
Sundri Timber — 370	Tea, Average Price of	—	294
Sunn — 558, 573	Tea Boxes	522, 523	
Sunn Hemp 362, 382, 394, 397	Tea Chest	380, 521	
399, 400, 424, 426, 457	Tea Estate	—	521
476, 558, 568, 582	Tea Factory	—	403
Surgical Instrument 351, 483	Tea Garden	—	365
497, 500	Tea Industry	—	351
Suti 459, 501	Tea Industry—Assam	—	521
Susi — 489	Tea Output	—	294
Sword Stick — 541	Tea Plantations	—	293
Swords 487, 594	Teak 364, 382, 389, 402, 406		
Table Cloth 359, 375, 469	417, 421, 505, 509, 510, 511		
Tailoring — 356	513, 517, 555, 559, 566, 573		582, 590, 592
Tallow Substitute — 383	Technical Institutions	—	599
Tamarind 389, 421, 448	Telegraphic Information	—	77
510, 512, 514	Telephone Section	—	79
Tamarisk — 539	Tendu	—	513
Tangail Sarees — 374	Tennis Rackets	—	500
Tanned Hides — 366	Tent Factory	351, 380, 497	
Tanneries 356, 380, 392, 407	Tent Making	—	463
409, 410, 468, 517	Tents	465, 500	
565, 569, 585, 589	Terracotta Wares	—	413
Tannery Works — 547			
Tanning 376, 414, 450, 463, 472			
511, 562, 572, 575			
Tanning Bark 555, 580, 582			

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# 1308 INDUSTRY YEAR BOOK & DIRECTORY, 1943

Textile Industry, -		ias 403, Mysore 584, Pun-	
(Growth)	483, 553, 570	jab 483, United Provin-	
Textile Making	450, 504	ces 451	
Textile Mill	451, 515, 553	Trade Associations	165
	559, 565	Trade & Industries during	
Theatrical Requisites	— 356	1941-42, Review of	225
Thymol Factory	— 561	Transport—A s s a m 523,	
Thatching Grass	433, 438	Bengal 352, Bihar 431,	
Thermometric Scales	122	Central Provinces 505,	
TH (See under Sesamum)		Gwalior State 567, Mad-	
Tiles	356, 367, 376, 413, 420	ias 403, Punjab 484,	
	538, 590	United Provinces 451.	
Tile Factory	379, 380, 410, 559	Tun	365, 478
Timber—Assam 522, Punjab		Tungsten	430
482, United Provinces		Tur	388, 390, 392, 394
449.			395, 396, 399, 507
Timber	358, 369, 370, 382, 392	Turbans	382, 389, 490
	400, 405, 423, 446, 455		498, 530
	463, 496, 507, 510, 511	Tumeric	411, 412, 427, 438, 454
	515, 518, 525, 546, 547		463, 467, 500, 517, 543
	549, 558, 568, 573, 579		563, 595
	595	Turpentine	458, 575
Timu leaves	391	Twist & Yarn Export	275
Tin	388, 430, 436, 453	Twist & Yarn Import	273
Tin Box Making	356, 374, 460	Twist Production	271
	497, 587	Type Foundry	356, 579
Tin Factory	— 453	Type Writer's Carbon &	
Tin Utensils	— 594	Ribbon	538
Tobacco	293, 349, 362, 366	Umbrella Making	351, 375, 379
	369, 381, 388, 393, 398	Umbrella Sticks	356
	401, 405, 408, 410, 411	Umbrella for Temples	409
	412, 415, 416, 420, 428	United Provinces—Rainfall	
	432, 434, 437, 438, 439	448, Soil 448, Crops 448,	
	442, 448, 465, 468, 471	Sarda Canal Scheme 449,	
	475, 478, 479, 481, 486	Timber 449, Cattle 449,	
	494, 496, 498, 507, 520	Ghee 449, Minerals 449,	
	524, 527, 530, 537, 539	Cottage Industries 449,	
	545, 553, 556, 558, 560	Major Industries 450,	
	563, 568, 573, 579, 582	Sugar Factory 450, Fac-	
Tobacco Pressing & Pack-		tories 450, Cotton Spin-	
ing	— 356	ning 450, Industrial Pos-	
Tobacco Output	293	sibilities 450, Trade 451,	
Toilet Goods	350, 356	Transport and Communi-	
Toilet Soap	364, 588	cation 451.	
Tomatoes	— 595	Units of Sale of Commo-	
Tonnage Schedule	— 101	dities	123
Total Private Deposits	248	Upholstery	460
Toy making	351, 389, 414, 521	Uranis	367
	583	Uranium	430
Toys	396, 422, 440, 486	Urid	394, 413, 428, 507, 516
	496, 504, 546, 562		549, 558, 571, 573
Towels	375, 439	Utensils	441, 458, 550
Tracing Cloth	— 356	Val	394, 400
Trade—Assam 522, Bombay		Valves	— 560
383, Calcutta 356, Central		Varagu	406, 407, 409, 415, 416
Provinces 505, Karachi		Vall	— 388
536, Kashmir 576, Mad-		Variga	— 412

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Varnishes Factory	—	584	Wine Nails	351, 538
Vegetables	349, 367, 375, 388		Wire Nettings	356, 513
	396, 402, 416, 425, 432		Wood	405, 510, 522, 567, 573
	448, 459, 469, 475, 481			595
	510, 513, 520, 553, 561		Wood Carving	382, 388, 405, 441
	563			450, 461, 472, 477, 478
Vegetable Ghee Mill	—	495		483, 491, 521, 540, 567
Vegetable Oil Crushing	—	494	Wood Engraving	—
Vegetable Oil Refining	—			351
Work	—	493	Wood Pulp	—
Velvet	—	501		575
Veterinary and Poultry			Wood Work	412, 498, 565, 575
Institutions	—	658	Wooden Bangle	—
Wagons & Locomotives	—	239		594
War Risk Ordinances	—	153	Wooden Dolls	—
Washing Soap	364, 393, 588			411
Watch Repairing	—	351	Wooden Furniture	486, 556
Water Melon	362, 366		Wooden Jars	—
Water-proof Cloth	—	356		454
Wax	410, 436, 446, 463		Wooden Lacquered Toys	—
	555, 559, 566, 590			459
Weaving	358, 359, 405, 407, 413		Wooden Pots	364, 365
	414, 416, 422, 424, 516		Wooden Spoons	—
	542, 588			419
Weaving Institutions	—	661	Wooden Toys	416, 450, 546, 556
Weaving and Dyeing	—	390		574
Weaving Factory	—	556, 573	Wooden Utensils	—
Weaving Industry	412, 420, 482			521
Weaving Institute	389, 530		Wooden Work	460, 562
Weaving Mill	409, 515, 517, 577		Wool	405, 409, 463, 483, 488
Weights and Measures	—	118		496, 565, 583
Weight & Volume of			Wool Baling Press	—
Water	—	121		557
Wheat	237, 349, 358, 388, 390		Wool (Raw)	483, 485, 487, 497
	392, 395, 396, 398, 399		Wool Carding Factory	—
	415, 416, 428, 432, 434			589
	448, 451, 452, 454, 456		Wool Cleaning Factory	—
	458, 459, 461, 465, 467			557
	469, 471, 473, 474, 476		Wool Industry	—
	478, 480, 481, 484, 486			504
	488, 490, 492, 494, 496		Wool Spinning	—
	497, 499, 501, 503, 505			588
	507, 509, 512, 514, 516		Wool Weaving	365, 565, 588,
	537, 539, 541, 550, 551		Woollen Blanket	351, 358, 376
	553, 558, 561, 563, 566			408, 476, 498, 541, 565
	568, 571, 573, 578, 585			572, 587
	587, 590, 594, 595		Woollen Blankets Wear-	
Wheat Control Order,			ing	566, 596
1942	—	139	Woollen Baling Press	—
Wheat Export & Import	—	288		557
Wheat Output	—	288	Woollen Carpet	402, 406, 430
Whip	—	465		450, 474, 488, 496
White Marble	—	594	Woollen Cloth	450, 491, 571, 572
Wicker Work	—	576	Woollen Fabrics	463, 486, 571
Wigs	—	356	Woollen Goods	383, 475, 483
Wine	—	394		540, 583
Winnows	—	588	Woollen Industry	409, 583
			Woollen Mills	450, 483, 553
				583, 585
			Woollen Rugs	470, 528
			Woollen Stocking	—
			Yams	—
				563
			Yarn	375, 414, 434
			Yarn Export	—
				275
			Yarn Making	—
				506
			Yarn Output	—
				273
			Yarns and Piecegoods,	
			Import of	276, 277
			Zaida	—
				459
			Zinc	574, 594
			Zucon	307, 593

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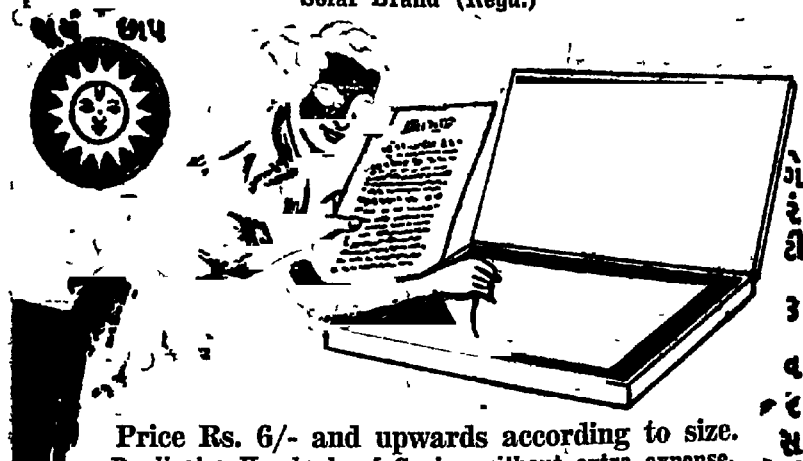
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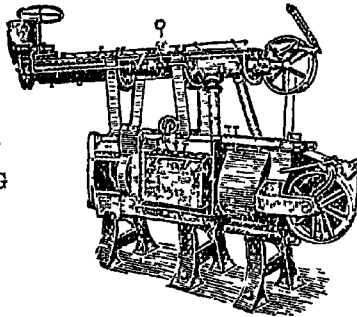
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